0390055036—DeWitt County
Clinton/Clinton Landfill 3
Groundwater File
Review Date: 7 May 2014
Inspector: Jeff Turner

Landfill Groundwater Split Sample Record Review

Introduction

On 1–2 April 2014, I conducted a groundwater inspection at this operating landfill. The purpose of the inspection was to determine the site's compliance with applicable groundwater provisions of the Illinois Environmental Protection Act, the Title 35 Illinois Administrative Code regulations, and the site's Illinois EPA-issued permit, 2005-070-LF. A central aspect of the inspection was the collection of groundwater split samples with the facility as part of their routine sampling event. On 28 April 2014, I received the analytical results for my split samples from the Illinois EPA laboratory. Facility representatives forwarded their split sample data on 6 May 2014.

Site history and description

Clinton Landfill, Inc. is a subsidiary of Peoria Disposal Company (PDC). The complex of three landfills lies just east of US Route 51 south of Clinton.[1] The first landfill, listed in the Bureau of Land Site Inventory System as Clinton Landfill Inc (site #0398080005) but informally referred to as Clinton Landfill 1, began accepting waste in the mid-1970s and was certified closed in 1990. It remains in an extended post-closure care period, conducting corrective action for groundwater exceedances. Clinton Landfill 2 (site #0398080007), located immediately east of Clinton #1, began in 1990 and ceased accepting waste in mid-2010. Its closure certification application was approved by the Permit Section on 22 May 2013; its minimum 30-year post closure care period began 12 May 2011 and will therefore last until at least 12 May 2041.

Clinton Landfill 3 lies directly east of Clinton Landfill 2. The majority of Clinton Landfill 3 lies within the southwest quarter of Section 11, and the North one-half of the Northwest quarter of Section 14, Township 19 North, Range 2 East of the 3rd Principal Meridian, DeWitt County, Illinois. The property comprises approximately 225 acres of what was formerly primarily crop land and timber land. A 5-acre residential parcel (owned by CLI) exists in the eastern portion of the site. Land use in

[1] Not to be confused with similarly named sites such as Clinton Municipal #s 1–2, City of Clinton #s 1–2, etc. The only connections that I could determine between the current, privately owned complex and any of the other sites is that the site formerly known as Clinton Municipal #3 ultimately became Clinton Landfill, Inc. (#1), 0398080005. Similarly, the site formerly known as Clinton Municipal (0398080001) was on property now occupied by Clinton Landfill 2, 0398080007.

the region is predominately agricultural, (i.e., row crops and livestock) with some rural single family dwellings scattered throughout the area.

Clinton Landfill 3 is the currently active facility in the Clinton Landfill complex. Its development was approved by Permit 2005-070-LF on 2 March 2007. The total footprint for waste will be approximately 157.451 acres, according to the permit.

Permit Modification 9 (8 January 2010) authorized the reconfiguration of the facility into two units, the Municipal Solid Waste Unit (MSWU) and the Chemical Waste Unit (CWU). Neither the MSWU nor the CWU is permitted to accept RCRA[2] hazardous waste.

Part of the MSWU will overlie the CWU. A separation berm will separate the two units horizontally and a separation layer will separate them vertically. The overlying portion of the MSWU is to be emplaced after the CWU is filled to capacity and the separation layer has been constructed. Although the MSWU and CWU are permitted for different types of waste, they are part of the same landfill, have the same groundwater monitoring network, will eventually have to be certified closed as one landfill, and will have the same post-closure care period.

General regulatory information

Clinton Landfill 3 is subject to 35 Ill. Adm. Code Parts 811–813, as applicable. It is also subject to its permit, 2005-070-LF, first issued on 2 March 2007 and most recently modified on 28 April 2014 (modification 45, which approved alternate source demonstrations for the third and fourth quarters of 2012 and the third quarter of 2013). As noted previously, Modification 9, issued on 8 January 2010, approved the reconfiguration of the facility into two units, a Municipal Solid Waste Unit (MSWU) of 146.453 acres and a Chemical Waste Unit (CWU) of 22.495 acres.

The MSWU is permitted for municipal solid waste and non-hazardous special waste. It first accepted waste in July 2009.

The CWU will occupy 22.495 acres of the southwest corner of the overall landfill footprint and is being constructed to a more stringent design standard. The CWU may accept non-hazardous special waste, inert waste, putrescible waste, and chemical wastes, including manufactured gas plant waste.[3] The CWU first accepted waste on 28 April 2011, according to permit application Log 2011-448.

If approved by USEPA, who holds permitting authority for polychlorinated biphenyls (PCBs) under the Toxic Substances Control Act (TSCA),[4] the CWU will be allowed to accept PCB wastes whose

[2] "RCRA" refers to the federal Resource Conservation and Recovery Act of 1976, the principal federal law regulating the disposal of solid waste and hazardous waste in the United States. RCRA regulations define whether a waste is "hazardous" or not.
[3] Manufactured gas plant waste may exceed the toxicity thresholds of §721.124(b) without being a RCRA hazardous waste unless it is hazardous for ignitibility, corrosivity, or reactivity, per 35 Ill. Adm. Code §721.124(a).
[4] The Toxic Substances Control Act of 1976 is a separate law from RCRA. Unlike RCRA, which primarily regulates waste, TSCA additionally regulates materials that are not waste. PCBs are regulated under TSCA.

total PCB concentration is not greater than 500 parts per million. The federal public comment period has ended but USEPA has not yet issued a final decision on whether PCBs will be allowed.

Monitored aquifers

Four water-bearing units of interest within the glacial overburden have been identified. While other water-bearing units are present at the site, three of the four units designated for monitoring are interpreted as being the upper-most water-bearing units below the landfill floor, and the fourth is intersected by and/or occurs higher than the landfill floor.

Roxana Silt-Robein Member

The Roxana Silt was present in most areas of the landfill. It is often found to be dry. It was to be removed within the landfill footprint down to the level of the Berry Clay, a unit occurring between it and the Radnor Till. The excavation between the landfill invert and the Berry Clay was then to be filled with recompacted clay of a maximum hydraulic conductivity of 1×10^{-7} cm/sec to improve the foundation of the landfill. Potentiometric contour maps in 2012 show the groundwater flow within the Roxana Silt-Robein Member is toward the southwest.

Upper Radnor Till Sand

The first unit below the landfill floor, interpreted as an outwash sand of the Radnor Till Member, is located at an approximate elevation of 653 to 647 feet AMSL and is termed herein the Upper Radnor Till Sand. The Upper Radnor Till Sand attains a maximum thickness of 2.8 feet at piezometer EX-22S. Piezometers G53S and G57S, and monitoring wells G07S, G49S, G50S, and G54S are screened in this unit in the southeastern portion of the facility. Potentiometric contour maps in 2012 show the groundwater flow of the Upper Radnor Till Sand is toward the south or southwest. Because of its limited lateral extent and proximity to the landfill floor, the Upper Radnor Till Sand was excavated and removed within the landfill footprint.

Lower Radnor Till Sand

The next unit, also interpreted as an outwash sand, is present at an approximate elevation of 644 to 637 feet AMSL beneath the facility and is termed herein the Lower Radnor Till Sand. Piezometers EX-4, EX-5, and monitoring wells G01M, G04M, G05M, G08M, G16M, R17M, G18M, G19M, G20M, G40M, G47M, G48M, G49M, G58M, and G39M are screened in this unit. Water level measurements were obtained from these piezometers during the four quarters of 2003 and 2004. Four contour maps showing the potentiometric surface in this sand unit during the four quarters of 2004 were prepared. Potentiometric contour maps in 2012 show the groundwater flow of the Lower Radnor Till Sand is toward the southeast with a component toward the southwest.

Organic Soil

The final unit encountered is an organic soil which is at an approximate elevation of 643 to 627 feet AMSL across the site and is termed the Organic Soil. Monitoring wells G01D, G02D, G03D, G07D, G08D, G09D, G16D, R17D, G18D, R19D, G20D, G40D, G47D, G48D, G49D, G58D, G59D, and G39D, and piezometers G06D and G50D are screened in this unit. Potentiometric con-

tour maps in 2012 show the groundwater flow of the Organic Soil is toward the southeast with a component toward the southwest.

Review of split sample results

Samples of groundwater were collected from pre-selected monitoring wells during the sampling event. These wells included G02D, an upgradient well; G16D and G25D, two wells adjacent to active or filled cells of the MSWU; and G49D, a well downgradient of the CWU. The selection rationale was to sample one upgradient well, at least one well downgradient of the MSWU, and at least one downgradient of the CWU. Necessarily, the ability of a well to provide sufficient water for a split sample was taken into account. Additionally, G25D were selected because it had had detections of organic compounds and was therefore specifically requested via Illinois EPA management by an oversight taskforce to which the Illinois EPA is party. G24D had initially been selected for the same reason but its history suggested that it would have insufficient recharge to support a split sampling event; therefore, nearby well G16D was sampled instead.

The sampling event had originally been intended to occur in January 2014; however, the frigid winter of 2014 coupled with a high water level in G25D resulted in the upper part of that well being filled with ice. It did not thaw until late March and thus the sampling event occurred on 1 April.

Parameters chosen and sample bottles prepared for the putative January event were based on the facility's routine first quarter analyte list: dissolved metals, ammonia, nitrate,[5] sulfate, and chloride; pH; specific conductance; total cyanide; and total dissolved solids. Volatile and semi-volatile organic compounds (VOCs and SVOCs) were added at the request of the task force, due to past organic detections in G25D. When the intended January event ultimately evolved into an April event, i.e., a second quarter event, I used the same bottles and analytical request that I had already prepared for January. The analysis request was very similar to the facility's second quarter monitoring list.[6]

In addition to the above well samples, I collected extra sample volume for quality control purposes. This included additional volume from G02D for matrix spike and matrix spike duplicate organic analyses. These analyses are a method by which the Laboratory determines how readily a given compound in the matrix (i.e., in the groundwater sample) can be detected and quantified, or conversely, whether something in the matrix interferes with the quantitation of the compound. This is a type of quality control sample run by the Laboratory for their own calculations and its results are not reported independently of the results of the primary sample from the selected well.

I also collected one complete extra sample from one of the chosen wells to serve as a field duplicate. A field duplicate is an extra sample collected from one monitoring point (well) as close in time as

[5] Clinton Landfill's permit specifies nitrate, but the Illinois EPA Laboratory currently runs nitrate/nitrite. The result is the total amount of nitrate and nitrite. Since the results were below the reporting limit, the distinction is moot.
[6] The organic compounds in the facility's second quarter monitoring list can be broadly classified into two categories: volatile organic compounds and semi-volatile organic compounds. I therefore requested volatile and semi-volatile organic analyses. There is not a 1:1 correspondence between the lists of volatile and semi-volatile constituents analyzed by the Illinois EPA Laboratory and what is required by the permit. However, requesting those two groups comes reasonably close to permitted analytes.

possible to the primary sample from that well. The purpose of a field duplicate is to allow an estimation of any bias or interference from sampling methodology, cross-contamination, and analytical variability. During this sampling event, I collected a field duplicate from well G25D and blind-labeled it G90D. Blind labeling is done to conceal the sample's duplicate nature from the Laboratory, to avoid any intentional or unintentional bias on their part.

The Laboratory analyzed most parameters by SW-846, a set of USEPA environmental analytical methods typically used for analysis of solid waste and hazardous waste. These methods are also used by the Illinois EPA for groundwater at solid waste and hazardous waste sites. For certain parameters, the Laboratory used other standard methods that are, for the most part, USEPA methods for the analysis of water. Notably, the Laboratory ran the VOC samples by USEPA's drinking water method, the most sensitive method available to them.

On 28 April 2014, Celeste Crowley of the Illinois EPA laboratory emailed me the results of the Illinois EPA split sample portions. I entered them into an Excel spreadsheet for comparison and presentation. I also entered the facility's results for the same wells, as provided by PDC Laboratories from the facility's split portions.

Discussion of Illinois EPA results

Organics

No VOCs were detected above the reporting limit.[7] The only SVOC reported was bis(2-ethylhexyl)phthalate (BEHP) at a concentration of 7.2 µg/L in the sample from G25D. Notably, this compound was not detected above the reporting limit in the duplicate sample collected from G25D, meaning its concentration in that sample was less than 1.5 µg/L.

That the compound was not detected in the duplicate sample strongly suggests that it was not actually present in the groundwater in that well, and its detection in the first sample stems instead from contamination of the sample bottle or some other artifact of sampling or analysis. BEHP is commonly used as a plasticizer.[8] Plasticizers are used to increase the plasticity or fluidity of materials, not just plastics but also concrete and other construction materials,[9] meaning that they are in widespread use in the modern world. Potential sources that could have contaminated the sample include, but are not necessarily limited to, the disposable plastic gloves used during sampling and plastics in the laboratory, even in the analyzer itself.

Monitoring of BEHP is not currently required by the facility's permit, although AGQSs/MAPCs[10] were previously established for di(2-ethylhexyl)phthalate (DEHP), of which BEHP is an isomer[11].

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[7] A reporting limit is the lowest concentration of a constituent that can be reliably quantified in a sample. It is not the same as a detection limit, which is the lowest concentration that can be detected (but not reliably quantified) above background noise.

[8] http://en.wikipedia.org/wiki/Bis(2-ethylhexyl)_phthalate, accessed 30 April 2014.

[9] http://en.wikipedia.org/wiki/Plasticizers, accessed 30 April 2014.

[10] AGQS = Applicable groundwater quality standard. MAPC = Maximum allowable predicted concentration. §810.103 states, "'Zone of attenuation' means the three dimensional region formed by excluding the volume occupied by the waste placement from the smaller of the volumes resulting from vertical planes drawn to the bottom of the uppermost aquifer at the property boundary or 100 feet from the edge of one or more adjacent units. Stated more simply, this is a

The MAPC for DEHP (itself not currently required to be monitored) in Organic Soil wells (such as G25D) is 7.4 µg/L. The presumed spurious BEHP concentration reported in the primary Illinois EPA sample was less than the DEHP MAPC; thus, even if the value were real and not an artifact, monitoring for it was required, and the DEHP MAPC applicable to BEHP, the result would still be less than the standard.

Overall, the lack of verifiable, reproducible organic detections in the Illinois EPA split samples strongly suggests that the previous organic detections in G02D and G25D samples were not the result of a release from the facility, as a release would be expected to be ongoing.

Inorganics

As seen in the attached spreadsheet, many of the permit-required inorganic constituents were not detected above their laboratory reporting limits. Dissolved cadmium was reported at concentrations of 3.87 and 3.14 µg/L in G02D and G25D, respectively. These were just above the Illinois EPA Laboratory's reporting limit of 3.0 µg/L and are also above the permitted AGQS/MAPC of 1.0 µg/L. The result of 3.14 µg/L in G25D was not corroborated by the field duplicate collected from the well, in which the result was less than 3.0 µg/L. The facility's obligation under its permit and the regulations is to respond to observed increases above AGQSs/MAPCs in its own data, not in Illinois EPA split results; therefore no action in regard to this detection is anticipated.

AGQSs/MAPCs were previously established for dissolved iron and dissolved manganese, although the facility is not currently required to monitor those two constituents due to changes in Illinois Pollution Control Board regulations in 2007. Concentrations detected in the Illinois EPA samples were less than the respective AGQSs/MAPCs.

I compared results from the primary and duplicate G25D samples where given constituents were detected above reporting limits in both samples. For each pair of results, I compared the two numbers to each other using relative percent difference (RPD) thusly,

$$\% \text{ Diff} = \left| \frac{x_1 - x_2}{(x_1 + x_2)/2} \right| \times 100$$

where x_1 and x_2 are the two values to be compared. Stated in words, RPD is the *difference* between two numbers divided by their *average*. RPD is often used to compare the closeness of two values that should be the same (e.g., split sample results).

The data revealed an apparently anomalously high RPD of 53.38% for dissolved aluminum. I discussed it with Lee Grebner, the Inorganic Supervisor at the Illinois EPA Laboratory. Grebner stated

buffer zone outside the waste footprint. The outer edge of the zone of attenuation is called the compliance boundary. AGQSs are applicable to upgradient wells and downgradient compliance boundary wells. MAPCs are applicable to wells within the zone of attenuation. Both AGQSs and MAPCs are statistically derived from concentration data from multiple sampling events to represent expected background concentrations, i.e., natural conditions. Statistical methods used for this purpose are generally designed to allow a certain percentage of false positive results. In other words, it is expected that some exceedances will occur that are not actually statistically different from background concentrations. The statistics are done this way to ensure that no false negatives occur, that is, that no actual exceedances are missed.

[11] Same chemical formula but different structure (shape)

that although the reporting limit is 60 µg/L and the Laboratory can theoretically quantitate down to the level, only in a best case scenario would results approaching that concentration be accurate. Aluminum is a "noisy" parameter because of the ubiquity of that element in the world and even in the laboratory, where equipment and measuring implements are commonly made of aluminum. Grebner felt that although the methodology is supposedly capable of a 60 µg/L reporting limit, a 200 µg/L reporting limit would more accurately represent concentrations greater than background noise or artifacts caused by ambient aluminum in the sampling process, from collection through laboratory analysis. Therefore, I assign no significance to the relatively large RPD for this parameter and do not consider it to impugn the validity of the rest of the data. Additionally, analysis of dissolved aluminum is not required by the facility's permit; it was analyzed simply because it is part of the standard suite of metals provided by the Illinois EPA Laboratory for groundwater samples.

Other than the aluminum values, the primary and duplicate samples compared quite well to each other. The average RPD for permit-required parameters was 2.67%, with no single RPD greater than 7% and half of the RPDs less than 2%. The non-permit-required results also compared well, with an average RPD of 7.12% even including the dissolved aluminum RPD. Discounting the high dissolved aluminum RPD, no RPD was greater than 10% and the average RPD was 2.50%, or about the same as for the permitted parameters. I interpret these very low RPDs as demonstrating overall that the Illinois EPA's sampling and analysis efforts introduced little to no bias into the final results, and that the data are reliable.

Comparison of Clinton Landfill results to Illinois EPA results

On 6 May 2014, I received Clinton Landfill's results for the split samples, as analyzed by PDC Laboratories and forwarded by Joyce Day with PDC Technical Services. I entered the results into the spreadsheet for comparison with the Illinois EPA results.

Inorganics

First I compared each Clinton Landfill result to the corresponding Illinois EPA result (or to the Illinois EPA average result for G25D, which had a field duplicate), using RPD. There were certain result pairs for which I could not or did not generate an RPD. For any constituent for which either or both laboratories reported a result less than the reporting limit, no meaningful comparison could be made—the true values are not known, and even the reporting limits were not always the same between the two laboratories.[12] For pH and specific conductance, I chose to make no comparison because CLI's values for these parameters were field-measured, while the Illinois EPA results were laboratory-measured. pH and specific conductance are parameters whose results in a given sample tend to change readily with time and are therefore most appropriately determined upon collection. Since my results were measured in the laboratory later in the day (if not actually the next day), I would not expect them to be comparable to the field-measured values and hence did not calculate RPDs. Conversely, I did compare alkalinity results, even though the two laboratories were reporting slightly different parameters. PDC Laboratories speciated their alkalinity results into bicarbonate alkalinity and carbonate alkalinity, while the Illinois EPA laboratory reported total alkalinity. As all of the PDC alkalinity results for carbonate alkalinity were below the reporting limit, implying that bi-

[12] PDC Laboratories generally achieved a lower reporting limit.

carbonate alkalinity should be equivalent to total alkalinity, I compared the PDC bicarbonate alkalinity to the Illinois EPA total alkalinity. The resultant RPDs were among the smallest in this review.

To determine which laboratory tended to report higher values, I did not calculate the absolute value of the RPD but rather the raw RPD. In other words, some of the RPDs are negative numbers, because in calculating the difference of the two results a larger number was subtracted from a smaller number. In calculating each RPD, I always subtracted the CLI result from the Illinois EPA result. In any instance where CLI had reported a greater value that the Illinois EPA did, the resultant RPD was negative. This "negative" has no connotation or hidden meaning relative to the facility. All it signifies is that the facility reported a higher result.

In this stage of RPD comparison, I did not attempt to factor in the magnitude of the number. In other words, an RPD of 50% would not carry any more or any less weight than an RPD of 1%. While RPDs can be a useful tool in comparing numbers, small differences in small numbers (e.g., 2.72 mg/L vs. 2.0 mg/L for dissolved ammonia in G49D) naturally result in an inflated RPD that makes the results look substantially more different than they really are. Therefore, the comparison of RPDs was solely of their positive or negative attribute.

After generating the RPDs, I noted how many were positive and how many were negative. There were seventeen positive RPDs and nineteen negative, while one RPD was exactly zero—the source results, alkalinity in G16D, were identical. The nearly equal number of positive and negative RPDs showed there was no strong tendency for one laboratory to report higher values than the other.

To estimate the comparability of the two data sets in another way, I looked at the magnitude of the RPDs. As was seen with the comparison of the Illinois EPA primary sample to its duplicate from that same well, even two samples collected from the same source at the same time in a manner designed to maximize comparability does not result in analytical results that are identical. Intuitively, adding another variable—the use of a different laboratory—into such a comparison will result in greater analytical variation.

In this comparison, there were thirty-seven RPDs—in other words, there were a total of thirty-seven instances where both laboratories reported results above their respective reporting limits for a given parameter in a given well. Of those thirty-seven RPDs, twenty-five were 10% or less, and thirty-three were 20% or less. Without doing an exhaustive comparison to the results of split-sampling events I've conducted at other facilities over the past twenty-three years, my impression is that CLI's results compared to the Illinois EPA's results at least as well as any other facility's results have compared to Illinois EPA results.

Organics

No organics were detected above reporting limits in Clinton Landfill's results from the four wells split during the sampling event. This compares well with the Illinois EPA laboratory results, which included no organic detections other than the spurious bis(2-ethylhexyl)phthalate result. Since Clinton Landfill did not analyze for, nor was required to analyze for, bis(2-ethylhexyl)phthalate, these results cast no further light on the spurious value in the Illinois EPA data.

Observed exceedances

There were no exceedances of AGQSs or MAPCs in Clinton Landfill's data. The facility's results for dissolved cadmium in wells G02D and G25D, for which the Illinois EPA laboratory reported values exceeding the AGQSs/MAPCs, were below PDC Laboratories' reporting limit of 1.0 µg/L. As mentioned previously, the facility's responsibility is to identify and respond to apparent exceedances in its own data. Also as mentioned previously, the exceeding result in the Illinois EPA G25D sample was not corroborated by the field duplicate from the well. Given these facts and the other comparisons in this review, there is no reason to accord the Illinois EPA laboratory's results more weight than PDC's for determining whether there was an exceedance.

Summary

This review evaluated data from a groundwater split sampling inspection at Clinton Landfill 3. The data show that the results reported by the facility's laboratory should be viewed as comparable in quality to those reported by the Illinois EPA laboratory. As previously discussed in the inspection report for the 1–2 April sampling event, PDC's samplers' field techniques were acceptable. Therefore, data submitted by the facility should be considered of quality appropriate for the permitted monitoring program.

Attachments

1. Summary spreadsheet
2. Illinois EPA Laboratory report
3. PDC Laboratories report

Illinois EPA/Clinton Landfill 3 Groundwater Results

1 April 2014

Permit Parameters	Interwell	G02D			G16D			G25D					G49D		
		IEPA	CLI	RPD	IEPA	CLI	RPD	IEPA 1°	IEPA Dupe	IEPA 1°/ Dupe RPD	CLI	RPD	IEPA	CLI	RPD
Ammonia, dissolved (mg/L)	25	17.5	15	15.38%	10.2	8	24.18%	11.4	12.2	6.78%	8.4	33.66%	2.72	2.0	30.51%
Arsenic, dissolved (µg/L)	170	6.78	7.8	-13.99%	26.8	29	-7.89%	48.4	50.4	4.05%	53	-7.03%	19.8	20	-1.01%
Boron, dissolved (µg/L)	530	489	530	-8.05%	410	420	-2.41%	363	342	5.96%	360	-2.11%	255	270	-5.71%
Cadmium, dissolved (µg/L)	1	**3.87**	<1	N/C	<3	<1	N/C	**3.14**	<3	N/C	<1	N/C	<3	<1	N/C
Chloride, dissolved (mg/L)	33	3.77	5.7	-40.76%	2.76	<10	N/C	2.49	2.53	1.59%	<10	N/C	1.88	<10	N/C
Chromium, dissolved (µg/L)	15	<5	<4	N/C	<5	<4	N/C	<5	<5	N/C	<4	N/C	<5	<4	N/C
Cyanide, total (mg/L)	0.005	<0.005	<0.005	N/C	<0.005	<0.005	N/C	<0.005	<0.005	N/C	<0.005	N/C	0.005	<0.005	N/C
Lead, dissolved (µg/L)	2.5	<5	<1	N/C	<5	<1	N/C	<5	<5	N/C	<1	N/C	<5	<1	N/C
Magnesium, dissolved (mg/L)	72.1	53.9	49	9.52%	61.8	55	11.64%	49.6	49.5	0.20%	45	9.62%	46.3	43	7.39%
Mercury, dissolved (µg/L)	0.2	<0.06	<0.20	N/C	<0.06	<0.20	N/C	<0.06	<0.06	N/C	<0.20	N/C	<0.06	<0.20	N/C
Nitrate, dissolved (mg/L)*	1.5	<0.1	<0.02	N/C	<0.1	<0.02	N/C	<0.1	<0.1	N/C	<0.02	N/C	<0.1	<0.02	N/C
pH	5.98–8.18	7	6.80	N/C	7.4	7.04	N/C	7.2	7.2	0.00%	6.93	N/C	7.2	6.93	N/C
Spec. Cond. (µmhos/cm)	1383	1,306	1330	N/C	1143	1120	N/C	1015	1017	0.20%	1000	N/C	867	854	N/C
Sulfate, dissolved (mg/L)	76	11.1	<1	N/C	<10	<1	N/C	<10	<10	N/C	2.3	N/C	<10	3.1	N/C
Total Dissolved Solids (mg/L)	787	686	700	-2.02%	618	620	-0.32%	530	544	2.61%	560	-4.19%	510	480	6.06%
Zinc, dissolved (µg/L)	16	<25	<6	N/C	<25	<6	N/C	<25	<25	N/C	<6	N/C	<25	<6	N/C
									Ave RPD	2.67%					

Other Parameters	Interwell	G02D			G16D			G25D					G49D		
		IEPA	CLI	RPD	IEPA	CLI	RPD	IEPA 1°	IEPA Dupe	IEPA 1°/ Dupe RPD	CLI	IEPA/CLI RPD	IEPA	CLI	RPD
Alkalinity (mg/L)	N/C	730	750	-2.70%	660	660	0.00%	575	570	0.87%	580	-1.30%	485	490	-1.03%
Aluminum, dissolved (µg/L)	N/C	75.8	N/A	N/C	<60	N/A	N/C	164	94.9	53.38%	N/A	N/C	<60	N/A	N/C
Antimony, dissolved (µg/L)	N/C	<2	N/A	N/C	<2	N/A	N/C	<2	<2	N/C	N/A	N/C	<2	N/A	N/C
Barium, dissolved (µg/L)	N/C	382	N/A	N/C	288	N/A	N/C	298	281	5.87%	N/A	N/C	186	N/A	N/C
Beryllium, dissolved (µg/L)	N/C	<1	N/A	N/C	<1	N/A	N/C	<1	<1	N/C	N/A	N/C	<1	N/A	N/C
Calcium, dissolved (mg/L)	N/C	147	130	12.27%	117	97	18.69%	102	102	0.00%	94	8.16%	92.5	81	13.26%
Cobalt, dissolved (µg/L)	N/C	<10	N/A	N/C	<10	N/A	N/C	<10	<10	N/C	N/A	N/C	<10	N/A	N/C
Copper, dissolved (µg/L)	N/C	<10	N/A	N/C	<10	N/A	N/C	<10	<10	N/C	N/A	N/C	<10	N/A	N/C
Fluoride (mg/L)	N/C	0.25	N/A	N/C	0.29	N/A	N/C	0.35	0.35	0.00%	N/A	N/C	0.31	N/A	N/C
Iron, dissolved (µg/L)	12759.2	11,000	N/A	N/C	6,750	N/A	N/C	8770	8220	6.47%	N/A	N/C	4130	N/A	N/C
Manganese, dissolved (µg/L)	272.9	74.7	N/A	N/C	37.9	N/A	N/C	69.3	63.8	8.26%	N/A	N/C	33.1	N/A	N/C
Nickel, dissolved (µg/L)	N/C	<5	N/A	N/C	<5	N/A	N/C	<5	<5	N/C	N/A	N/C	<5	N/A	N/C
Phosphorous, dissolved (mg/L	N/C	0.348	N/A	N/C	0.236	N/A	N/C	0.299	0.303	1.33%	N/A	N/C	0.187	N/A	N/C
Potassium, dissolved (mg/L)	N/C	7.3	7.4	-1.36%	4.97	5.2	-4.52%	4.39	4.32	1.61%	4.6	-5.47%	2.34	2.6	-10.53%
Selenium, dissolved (µg/L)	N/C	<2	N/A	N/C	<2	N/A	N/C	<2	<2	N/C	N/A	N/C	<2	N/A	N/C
Silver, dissolved (µg/L)	N/C	<3	N/A	N/C	<3	N/A	N/C	<3	<3	N/C	N/A	N/C	<3	N/A	N/C
Sodium, dissolved (mg/L)	N/C	38.7	35	10.04%	35.5	33	7.30%	36.5	36.4	0.27%	34	6.96%	28.2	27	4.35%
Strontium, dissolved (µg/L)	N/C	559	N/A	N/C	820	N/A	N/C	743	741	0.27%	N/A	N/C	699	N/A	N/C
Thallium, dissolved (µg/L)	N/C	<2	N/A	N/C	<2	N/A	N/C	<2	<2	N/C	N/A	N/C	<2	N/A	N/C
Vanadium dissolved (µg/L)	N/C	<5	N/A	N/C	<5	N/A	N/C	<5	<5	N/C	N/A	N/C	<5	N/A	N/C

Bis(2-ethylhexyl)phthalate (µg	N/C	<1.5	N/A	N/C	<1.5	N/A	N/C	7.2	<1.5	N/C	N/A	N/C	<1.5	N/A	N/C
									Ave RPD	7.12%					
									Ave RPD	2.50%					
									w/o Al						

N/A = Not analyzed
N/C = Not calculated
IEPA 1° = IEPA primary sample of that well
Dupe = field duplicate of that well
RPD = Relative Percent Difference
*IEPA result is for nitrate + nitrite
<# = Below indicated reporting limit
Bold result = exceeds interwell

total RPDs	37
≤10%	25
≤20%	33

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Volatile Organic Compounds by GC/MS

Method:	524.2	Prepared:	04/02/14 15:22
Units:	ug/L	Analyzed:	04/02/14 18:16

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vinyl chloride	ND		0.50	2
1,1-Dichloroethene	ND		0.50	7
Methylene chloride	ND		0.50	5
trans-1,2-Dichloroethene	ND		0.50	100
Methyl tert-butyl ether	ND		0.50	
cis-1,2-Dichloroethene	ND		0.50	70
1,2-Dichloroethane	ND		0.50	5
1,1,1-Trichloroethane	ND		0.50	200
Carbon tetrachloride	ND		0.50	5
Benzene	ND		0.50	5
1,2-Dichloropropane	ND		0.50	5
Trichloroethene	ND		0.50	5
1,1,2-Trichloroethane	ND		0.50	5
Toluene	ND		0.50	1000
Tetrachloroethene	ND		0.50	5
Chlorobenzene	ND		0.50	100
Ethylbenzene	ND		0.50	700
Styrene	ND		0.50	100
1,4-Dichlorobenzene	ND		0.50	75
1,2-Dichlorobenzene	ND		0.50	600
1,2,4-Trichlorobenzene	ND		0.50	70
Xylenes, total	ND		0.50	10000

Reported:
04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 15:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pyridine	ND		1.5	
2-Picoline	ND		1.5	
Methyl methanesulfonate	ND		1.5	
Ethyl methanesulfonate	ND		1.5	
Phenol	ND		1.5	
Bis(2-chloroethyl)ether	ND		1.5	
2-Chlorophenol	ND		1.5	
1,3-Dichlorobenzene	ND		1.5	
1,4-Dichlorobenzene	ND		1.5	
1,2-Dichlorobenzene	ND		1.5	
2-Methylphenol	ND		1.5	
2,2-Oxybis(1-chloropropane)	ND	J3	1.5	
Acetophenone	ND		1.5	
4-Methylphenol	ND		1.5	
N-Nitrosodi-n-propylamine	ND		1.5	
Hexachloroethane	ND		1.5	
Nitrobenzene	ND		1.5	
N-Nitrosopiperidine	ND		1.5	
Isophorone	ND		1.5	
2-Nitrophenol	ND		1.5	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND		1.5	
2,4-Dichlorophenol	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 15:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2,4-Trichlorobenzene	ND		1.5	
Naphthalene	ND		1.5	
4-Chloroaniline	ND		1.5	
2,6-Dichlorophenol	ND		1.5	
Hexachloropropene	ND		1.5	
Hexachlorobutadiene	ND		1.5	
N-Nitrosodi-n-butylamine	ND		1.5	
4-Chloro-3-methylphenol	ND		1.5	
Isosafrole	ND		1.5	
2-Methylnaphthalene	ND		1.5	
1,2,4,5-Tetrachlorobenzene	ND		1.5	
Hexachlorocyclopentadiene	ND		1.5	
2,4,6-Trichlorophenol	ND		1.5	
2,4,5-Trichlorophenol	ND		1.5	
Safrole	ND		1.5	
2-Chloronaphthalene	ND		1.5	
1-Chloronaphthalene	ND		1.5	
2-Nitroaniline	ND	J3	1.5	
1,4-Dinitrobenzene	ND		1.5	
Dimethylphthalate	ND		1.5	
1,3-Dinitrobenzene *	ND		1.5	
2,6-Dinitrotoluene	ND		1.5	
Acenaphthylene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 15:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2-Dinitrobenzene	ND		1.5	
3-Nitroaniline	ND		1.5	
Acenaphthene	ND		1.5	
2,4-Dinitrophenol	ND		5.0	
4-Nitrophenol	ND		1.5	
Dibenzofuran	ND		1.5	
2,4-Dinitrotoluene	ND		1.5	
Pentachlorobenzene	ND		1.5	
1-Naphthylamine	ND		1.5	
2-Naphthylamine	ND		1.5	
2,3,4,6-Tetrachlorophenol	ND		1.5	
Diethylphthalate	ND		1.5	
4-Chlorophenyl phenyl ether	ND		1.5	
Fluorene	ND		1.5	
4-Nitroaniline	ND		1.5	
4,6-Dinitro-2-methylphenol	ND		1.5	
Diphenylamine	ND		1.5	
Azobenzene *	ND		1.5	
Phenacetin	ND		1.5	
4-Bromophenyl phenyl ether	ND		1.5	
Hexachlorobenzene	ND		1.5	
Pentachlorophenol	ND		1.5	
Pronamide	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 15:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	
Carbazole	ND		1.5	
4-Nitrobiphenyl	ND		1.5	
Di-n-butylphthalate	ND		1.5	
5-Nitroacenaphthene	ND		1.5	
Isodrin	ND		1.5	
Fluoranthene	ND		1.5	
Pyrene	ND		1.5	
p-Dimethylaminoazobenzene	ND		1.5	
Butyl benzyl phthalate	ND		1.5	
3,3-Dichlorobenzidine	ND		1.5	
Benzo(a)anthracene	ND		1.5	
Chrysene	ND		1.5	
Bis(2-ethylhexyl)phthalate	ND		1.5	
Mestranol	ND		1.5	
Di-n-octylphthalate	ND		1.5	
Benzo(b)fluoranthene	ND		1.5	
7,12-Dimethylbenzo(a)anthracene	ND		1.5	
Benzo(k)fluoranthene	ND		1.5	
Benzo(a)pyrene	ND		1.5	
Indeno(1,2,3-cd)pyrene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 15:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Dibenzo(a,h)anthracene	ND		1.5	
Benzo(ghi)perylene	ND		1.5	

Cyanide by EPA Method 335.4

Method:	335.4	Prepared:	04/03/14 08:51
Units:	mg/L	Analyzed:	04/03/14 13:17

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide	ND		0.005	

pH

Method:	150.1	Prepared:	04/08/14 16:01
Units:	PH	Analyzed:	04/08/14 16:02

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.0**	Q	0.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D TOTAL**	Lab Sample ID:	**SD40029-01**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Total	Sample Depth:	Total Depth:

Specific Conductance by Standard Method 2510B

Method:	2510B	Prepared:	04/23/14 13:48
Units:	umho/cm	Analyzed:	04/23/14 15:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Specific Conductance	**1306**		10.00	

Total Dissolved Solids, Gravimetric, Dried at 180oC by Std. Method 2540C

Method:	2540C	Prepared:	04/07/14 14:22
Units:	mg/L	Analyzed:	04/07/14 14:22

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Dissolved Solids	**686**		10	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D DISSOLVED**	Lab Sample ID:	**SD40029-02**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Alkalinity by Standard Method 2320B

Method:	2320B	Prepared:	04/14/14 14:24
Units:	mg/L	Analyzed:	04/14/14 14:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Alkalinity	**730**		10.0	

Chloride by Standard Method 4500 Cl-E

Method:	4500-CL E	Prepared:	04/18/14 08:21
Units:	mg/L	Analyzed:	04/18/14 09:21

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Chloride	**3.77**		1.00	

Fluoride by Standard Method 4500-F C

Method:	4500F-C	Prepared:	04/02/14 11:32
Units:	mg/L	Analyzed:	04/02/14 14:25

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Fluoride	**0.25**		0.10	2

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D DISSOLVED**	Lab Sample ID:	**SD40029-02**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Mercury by EPA Method 245.1

Method:	245.1	Prepared:	04/07/14 13:22
Units:	ug/L	Analyzed:	04/09/14 10:07

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method:	6020	Prepared:	04/07/14 08:55
Units:	ug/L	Analyzed:	04/22/14 11:18

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony	ND		2.00	
Arsenic	**6.78**		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium	**147**		0.30	100000
Magnesium	**53.9**		0.30	100000

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D DISSOLVED**	Lab Sample ID:	**SD40029-02**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Potassium	**7.30**		1.40	100000
Sodium	**38.7**		0.30	
Hardness	**588**		1.98	

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Aluminum	**75.8**		60.0	40000
Barium	**382**		5.00	
Beryllium	ND		1.00	
Boron	**489**		10.0	
Cadmium	**3.87**		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	**11000**		50.0	40000
Manganese	**74.7**		15.0	
Nickel	ND		5.00	
Silver	ND		3.00	
Strontium	**559**		5.00	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D DISSOLVED**	Lab Sample ID:	**SD40029-02**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vanadium	ND		5.00	
Zinc	ND		25.0	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/08/14 12:41
Units:	mg/L	Analyzed:	04/08/14 13:28

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (NO3	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/03/14 09:06
Units:	mg/L	Analyzed:	04/03/14 14:19

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**17.5**		1.00	

Reported:
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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G02D DISSOLVED**	Lab Sample ID:	**SD40029-02**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 9:40
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/04/14 09:34
Units:	mg/L	Analyzed:	04/07/14 12:37

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.348**		0.0050	

Sulfate by EPA Method 375.2

Method:	375.2	Prepared:	04/08/14 07:29
Units:	mg/L	Analyzed:	04/08/14 13:03

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Sulfate	**11.1**		10.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Volatile Organic Compounds by GC/MS

Method:	524.2	Prepared:	04/02/14 15:22
Units:	ug/L	Analyzed:	04/02/14 18:56

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vinyl chloride	ND		0.50	2
1,1-Dichloroethene	ND		0.50	7
Methylene chloride	ND		0.50	5
trans-1,2-Dichloroethene	ND		0.50	100
Methyl tert-butyl ether	ND		0.50	
cis-1,2-Dichloroethene	ND		0.50	70
1,2-Dichloroethane	ND		0.50	5
1,1,1-Trichloroethane	ND		0.50	200
Carbon tetrachloride	ND		0.50	5
Benzene	ND		0.50	5
1,2-Dichloropropane	ND		0.50	5
Trichloroethene	ND		0.50	5
1,1,2-Trichloroethane	ND		0.50	5
Toluene	ND		0.50	1000
Tetrachloroethene	ND		0.50	5
Chlorobenzene	ND		0.50	100
Ethylbenzene	ND		0.50	700
Styrene	ND		0.50	100
1,4-Dichlorobenzene	ND		0.50	75
1,2-Dichlorobenzene	ND		0.50	600
1,2,4-Trichlorobenzene	ND		0.50	70
Xylenes, total	ND		0.50	10000

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 16:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pyridine	ND		1.5	
2-Picoline	ND		1.5	
Methyl methanesulfonate	ND		1.5	
Ethyl methanesulfonate	ND		1.5	
Phenol	ND		1.5	
Bis(2-chloroethyl)ether	ND		1.5	
2-Chlorophenol	ND		1.5	
1,3-Dichlorobenzene	ND		1.5	
1,4-Dichlorobenzene	ND		1.5	
1,2-Dichlorobenzene	ND		1.5	
2-Methylphenol	ND		1.5	
2,2-Oxybis(1-chloropropane)	ND		1.5	
Acetophenone	ND		1.5	
4-Methylphenol	ND		1.5	
N-Nitrosodi-n-propylamine	ND		1.5	
Hexachloroethane	ND		1.5	
Nitrobenzene	ND		1.5	
N-Nitrosopiperidine	ND		1.5	
Isophorone	ND		1.5	
2-Nitrophenol	ND		1.5	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND		1.5	
2,4-Dichlorophenol	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 16:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2,4-Trichlorobenzene	ND		1.5	
Naphthalene	ND		1.5	
4-Chloroaniline	ND		1.5	
2,6-Dichlorophenol	ND		1.5	
Hexachloropropene	ND		1.5	
Hexachlorobutadiene	ND		1.5	
N-Nitrosodi-n-butylamine	ND		1.5	
4-Chloro-3-methylphenol	ND		1.5	
Isosafrole	ND		1.5	
2-Methylnaphthalene	ND		1.5	
1,2,4,5-Tetrachlorobenzene	ND		1.5	
Hexachlorocyclopentadiene	ND		1.5	
2,4,6-Trichlorophenol	ND		1.5	
2,4,5-Trichlorophenol	ND		1.5	
Safrole	ND		1.5	
2-Chloronaphthalene	ND		1.5	
1-Chloronaphthalene	ND		1.5	
2-Nitroaniline	ND		1.5	
1,4-Dinitrobenzene	ND		1.5	
Dimethylphthalate	ND		1.5	
1,3-Dinitrobenzene *	ND		1.5	
2,6-Dinitrotoluene	ND		1.5	
Acenaphthylene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 16:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2-Dinitrobenzene	ND		1.5	
3-Nitroaniline	ND		1.5	
Acenaphthene	ND		1.5	
2,4-Dinitrophenol	ND		5.0	
4-Nitrophenol	ND		1.5	
Dibenzofuran	ND		1.5	
2,4-Dinitrotoluene	ND		1.5	
Pentachlorobenzene	ND		1.5	
1-Naphthylamine	ND		1.5	
2-Naphthylamine	ND		1.5	
2,3,4,6-Tetrachlorophenol	ND		1.5	
Diethylphthalate	ND		1.5	
4-Chlorophenyl phenyl ether	ND		1.5	
Fluorene	ND		1.5	
4-Nitroaniline	ND		1.5	
4,6-Dinitro-2-methylphenol	ND		1.5	
Diphenylamine	ND		1.5	
Azobenzene *	ND		1.5	
Phenacetin	ND		1.5	
4-Bromophenyl phenyl ether	ND		1.5	
Hexachlorobenzene	ND		1.5	
Pentachlorophenol	ND		1.5	
Pronamide	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 16:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	
Carbazole	ND		1.5	
4-Nitrobiphenyl	ND		1.5	
Di-n-butylphthalate	ND		1.5	
5-Nitroacenaphthene	ND		1.5	
Isodrin	ND		1.5	
Fluoranthene	ND		1.5	
Pyrene	ND		1.5	
p-Dimethylaminoazobenzene	ND		1.5	
Butyl benzyl phthalate	ND		1.5	
3,3-Dichlorobenzidine	ND		1.5	
Benzo(a)anthracene	ND		1.5	
Chrysene	ND		1.5	
Bis(2-ethylhexyl)phthalate	ND		1.5	
Mestranol	ND		1.5	
Di-n-octylphthalate	ND		1.5	
Benzo(b)fluoranthene	ND		1.5	
7,12-Dimethylbenzo(a)anthracene	ND		1.5	
Benzo(k)fluoranthene	ND		1.5	
Benzo(a)pyrene	ND		1.5	
Indeno(1,2,3-cd)pyrene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 16:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Dibenzo(a,h)anthracene	ND		1.5	
Benzo(ghi)perylene	ND		1.5	

Cyanide by EPA Method 335.4

Method:	335.4	Prepared:	04/03/14 08:51
Units:	mg/L	Analyzed:	04/03/14 13:17

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide	ND		0.005	

pH

Method:	150.1	Prepared:	04/08/14 16:01
Units:	PH	Analyzed:	04/08/14 16:02

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.4**	Q	0.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D TOTAL**	Lab Sample ID:	**SD40029-03**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Total	Sample Depth:	Total Depth:

Specific Conductance by Standard Method 2510B

Method:	2510B	Prepared:	04/23/14 13:48
Units:	umho/cm	Analyzed:	04/23/14 15:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Specific Conductance	**1143**		10.00	

Total Dissolved Solids, Gravimetric, Dried at 180oC by Std. Method 2540C

Method:	2540C	Prepared:	04/07/14 14:22
Units:	mg/L	Analyzed:	04/07/14 14:22

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Dissolved Solids	**618**		10	

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D DISSOLVED**	Lab Sample ID:	**SD40029-04**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Alkalinity by Standard Method 2320B

Method:	2320B	Prepared:	04/14/14 14:24
Units:	mg/L	Analyzed:	04/14/14 14:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Alkalinity	**660**		10.0	

Chloride by Standard Method 4500 Cl-E

Method:	4500-CL E	Prepared:	04/18/14 08:21
Units:	mg/L	Analyzed:	04/18/14 09:31

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Chloride	**2.76**		1.00	

Fluoride by Standard Method 4500-F C

Method:	4500F-C	Prepared:	04/02/14 11:32
Units:	mg/L	Analyzed:	04/02/14 14:25

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Fluoride	**0.29**		0.10	2

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D DISSOLVED**	Lab Sample ID:	**SD40029-04**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Mercury by EPA Method 245.1

Method:	245.1	Prepared:	04/07/14 13:22
Units:	ug/L	Analyzed:	04/09/14 10:07

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method:	6020	Prepared:	04/07/14 08:55
Units:	ug/L	Analyzed:	04/22/14 11:21

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony	ND		2.00	
Arsenic	**26.8**		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:31

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium	**117**		0.30	100000
Magnesium	**61.8**		0.30	100000

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D DISSOLVED**	Lab Sample ID:	**SD40029-04**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:31

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Potassium	**4.97**		1.40	100000
Sodium	**35.5**		0.30	
Hardness	**547**		1.98	

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:31

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Aluminum	ND		60.0	40000
Barium	**288**		5.00	
Beryllium	ND		1.00	
Boron	**410**		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	**6750**		50.0	40000
Manganese	**37.9**		15.0	
Nickel	ND		5.00	
Silver	ND		3.00	
Strontium	**820**		5.00	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D DISSOLVED**	Lab Sample ID:	**SD40029-04**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:31

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vanadium	ND		5.00	
Zinc	ND		25.0	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/08/14 12:41
Units:	mg/L	Analyzed:	04/08/14 13:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (NO3	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/03/14 09:06
Units:	mg/L	Analyzed:	04/03/14 14:19

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**10.2**		1.00	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G16D DISSOLVED**	Lab Sample ID:	**SD40029-04**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 12:11
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/04/14 09:34
Units:	mg/L	Analyzed:	04/07/14 12:38

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.236**		0.0050	

Sulfate by EPA Method 375.2

Method:	375.2	Prepared:	04/08/14 07:29
Units:	mg/L	Analyzed:	04/08/14 13:04

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Sulfate	ND		10.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Volatile Organic Compounds by GC/MS

Method:	524.2	Prepared:	04/02/14 15:22
Units:	ug/L	Analyzed:	04/02/14 19:36

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vinyl chloride	ND		0.50	2
1,1-Dichloroethene	ND		0.50	7
Methylene chloride	ND		0.50	5
trans-1,2-Dichloroethene	ND		0.50	100
Methyl tert-butyl ether	ND		0.50	
cis-1,2-Dichloroethene	ND		0.50	70
1,2-Dichloroethane	ND		0.50	5
1,1,1-Trichloroethane	ND		0.50	200
Carbon tetrachloride	ND		0.50	5
Benzene	ND		0.50	5
1,2-Dichloropropane	ND		0.50	5
Trichloroethene	ND		0.50	5
1,1,2-Trichloroethane	ND		0.50	5
Toluene	ND		0.50	1000
Tetrachloroethene	ND		0.50	5
Chlorobenzene	ND		0.50	100
Ethylbenzene	ND		0.50	700
Styrene	ND		0.50	100
1,4-Dichlorobenzene	ND		0.50	75
1,2-Dichlorobenzene	ND		0.50	600
1,2,4-Trichlorobenzene	ND		0.50	70
Xylenes, total	ND		0.50	10000

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 17:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pyridine	ND		1.5	
2-Picoline	ND		1.5	
Methyl methanesulfonate	ND		1.5	
Ethyl methanesulfonate	ND		1.5	
Phenol	ND		1.5	
Bis(2-chloroethyl)ether	ND		1.5	
2-Chlorophenol	ND		1.5	
1,3-Dichlorobenzene	ND		1.5	
1,4-Dichlorobenzene	ND		1.5	
1,2-Dichlorobenzene	ND		1.5	
2-Methylphenol	ND		1.5	
2,2-Oxybis(1-chloropropane)	ND		1.5	
Acetophenone	ND		1.5	
4-Methylphenol	ND		1.5	
N-Nitrosodi-n-propylamine	ND		1.5	
Hexachloroethane	ND		1.5	
Nitrobenzene	ND		1.5	
N-Nitrosopiperidine	ND		1.5	
Isophorone	ND		1.5	
2-Nitrophenol	ND		1.5	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND		1.5	
2,4-Dichlorophenol	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 17:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2,4-Trichlorobenzene	ND		1.5	
Naphthalene	ND		1.5	
4-Chloroaniline	ND		1.5	
2,6-Dichlorophenol	ND		1.5	
Hexachloropropene	ND		1.5	
Hexachlorobutadiene	ND		1.5	
N-Nitrosodi-n-butylamine	ND		1.5	
4-Chloro-3-methylphenol	ND		1.5	
Isosafrole	ND		1.5	
2-Methylnaphthalene	ND		1.5	
1,2,4,5-Tetrachlorobenzene	ND		1.5	
Hexachlorocyclopentadiene	ND		1.5	
2,4,6-Trichlorophenol	ND		1.5	
2,4,5-Trichlorophenol	ND		1.5	
Safrole	ND		1.5	
2-Chloronaphthalene	ND		1.5	
1-Chloronaphthalene	ND		1.5	
2-Nitroaniline	ND		1.5	
1,4-Dinitrobenzene	ND		1.5	
Dimethylphthalate	ND		1.5	
1,3-Dinitrobenzene *	ND		1.5	
2,6-Dinitrotoluene	ND		1.5	
Acenaphthylene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 17:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2-Dinitrobenzene	ND		1.5	
3-Nitroaniline	ND		1.5	
Acenaphthene	ND		1.5	
2,4-Dinitrophenol	ND		5.0	
4-Nitrophenol	ND		1.5	
Dibenzofuran	ND		1.5	
2,4-Dinitrotoluene	ND		1.5	
Pentachlorobenzene	ND		1.5	
1-Naphthylamine	ND		1.5	
2-Naphthylamine	ND		1.5	
2,3,4,6-Tetrachlorophenol	ND		1.5	
Diethylphthalate	ND		1.5	
4-Chlorophenyl phenyl ether	ND		1.5	
Fluorene	ND		1.5	
4-Nitroaniline	ND		1.5	
4,6-Dinitro-2-methylphenol	ND		1.5	
Diphenylamine	ND		1.5	
Azobenzene *	ND		1.5	
Phenacetin	ND		1.5	
4-Bromophenyl phenyl ether	ND		1.5	
Hexachlorobenzene	ND		1.5	
Pentachlorophenol	ND		1.5	
Pronamide	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 17:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	
Carbazole	ND		1.5	
4-Nitrobiphenyl	ND		1.5	
Di-n-butylphthalate	ND		1.5	
5-Nitroacenaphthene	ND		1.5	
Isodrin	ND		1.5	
Fluoranthene	ND		1.5	
Pyrene	ND		1.5	
p-Dimethylaminoazobenzene	ND		1.5	
Butyl benzyl phthalate	ND		1.5	
3,3-Dichlorobenzidine	ND		1.5	
Benzo(a)anthracene	ND		1.5	
Chrysene	ND		1.5	
Bis(2-ethylhexyl)phthalate	**7.2**		1.5	
Mestranol	ND		1.5	
Di-n-octylphthalate	ND		1.5	
Benzo(b)fluoranthene	ND		1.5	
7,12-Dimethylbenzo(a)anthracene	ND		1.5	
Benzo(k)fluoranthene	ND		1.5	
Benzo(a)pyrene	ND		1.5	
Indeno(1,2,3-cd)pyrene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 17:10

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Dibenzo(a,h)anthracene	ND		1.5	
Benzo(ghi)perylene	ND		1.5	

Cyanide by EPA Method 335.4

Method:	335.4	Prepared:	04/03/14 08:51
Units:	mg/L	Analyzed:	04/03/14 13:20

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide	ND		0.005	

pH

Method:	150.1	Prepared:	04/08/14 16:01
Units:	PH	Analyzed:	04/08/14 16:02

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.2**	Q	0.0	

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D TOTAL**	Lab Sample ID:	**SD40029-05**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Specific Conductance by Standard Method 2510B

Method:	2510B	Prepared:	04/23/14 13:48
Units:	umho/cm	Analyzed:	04/23/14 15:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Specific Conductance	**1015**		10.00	

Total Dissolved Solids, Gravimetric, Dried at 180oC by Std. Method 2540C

Method:	2540C	Prepared:	04/07/14 14:22
Units:	mg/L	Analyzed:	04/07/14 14:22

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Dissolved Solids	**530**		10	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D DISSOLVED**	Lab Sample ID:	**SD40029-06**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Alkalinity by Standard Method 2320B

Method:	2320B	Prepared:	04/14/14 14:24
Units:	mg/L	Analyzed:	04/14/14 14:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Alkalinity	**575**		10.0	

Chloride by Standard Method 4500 Cl-E

Method:	4500-CL E	Prepared:	04/18/14 08:21
Units:	mg/L	Analyzed:	04/18/14 09:32

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Chloride	**2.49**		1.00	

Fluoride by Standard Method 4500-F C

Method:	4500F-C	Prepared:	04/02/14 11:32
Units:	mg/L	Analyzed:	04/02/14 14:25

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Fluoride	**0.35**		0.10	2

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D DISSOLVED**	Lab Sample ID:	**SD40029-06**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Mercury by EPA Method 245.1

Method:	245.1	Prepared:	04/07/14 13:22
Units:	ug/L	Analyzed:	04/09/14 10:07

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method:	6020	Prepared:	04/07/14 08:55
Units:	ug/L	Analyzed:	04/22/14 11:23

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony	ND		2.00	
Arsenic	**48.4**		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:34

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium	**102**		0.30	100000
Magnesium	**49.6**		0.30	100000

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D DISSOLVED**	Lab Sample ID:	**SD40029-06**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:34

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Potassium	**4.39**		1.40	100000
Sodium	**36.5**		0.30	
Hardness	**460**		1.98	

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:34

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Aluminum	**164**		60.0	40000
Barium	**298**		5.00	
Beryllium	ND		1.00	
Boron	**363**		10.0	
Cadmium	**3.14**		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	**8770**		50.0	40000
Manganese	**69.3**		15.0	
Nickel	ND		5.00	
Silver	ND		3.00	
Strontium	**743**		5.00	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D DISSOLVED**	Lab Sample ID:	**SD40029-06**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:34

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vanadium	ND		5.00	
Zinc	ND		25.0	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/08/14 12:41
Units:	mg/L	Analyzed:	04/08/14 13:30

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (NO3	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/03/14 09:06
Units:	mg/L	Analyzed:	04/03/14 14:19

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**11.4**		0.50	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G25D DISSOLVED**	Lab Sample ID:	**SD40029-06**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/04/14 09:34
Units:	mg/L	Analyzed:	04/07/14 12:38

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.299**		0.0050	

Sulfate by EPA Method 375.2

Method:	375.2	Prepared:	04/08/14 07:29
Units:	mg/L	Analyzed:	04/08/14 13:06

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Sulfate	ND		10.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Volatile Organic Compounds by GC/MS

Method:	524.2	Prepared:	04/02/14 15:22
Units:	ug/L	Analyzed:	04/02/14 20:15

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vinyl chloride	ND		0.50	2
1,1-Dichloroethene	ND		0.50	7
Methylene chloride	ND		0.50	5
trans-1,2-Dichloroethene	ND		0.50	100
Methyl tert-butyl ether	ND		0.50	
cis-1,2-Dichloroethene	ND		0.50	70
1,2-Dichloroethane	ND		0.50	5
1,1,1-Trichloroethane	ND		0.50	200
Carbon tetrachloride	ND		0.50	5
Benzene	ND		0.50	5
1,2-Dichloropropane	ND		0.50	5
Trichloroethene	ND		0.50	5
1,1,2-Trichloroethane	ND		0.50	5
Toluene	ND		0.50	1000
Tetrachloroethene	ND		0.50	5
Chlorobenzene	ND		0.50	100
Ethylbenzene	ND		0.50	700
Styrene	ND		0.50	100
1,4-Dichlorobenzene	ND		0.50	75
1,2-Dichlorobenzene	ND		0.50	600
1,2,4-Trichlorobenzene	ND		0.50	70
Xylenes, total	ND		0.50	10000

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 18:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pyridine	ND		1.5	
2-Picoline	ND		1.5	
Methyl methanesulfonate	ND		1.5	
Ethyl methanesulfonate	ND		1.5	
Phenol	ND		1.5	
Bis(2-chloroethyl)ether	ND		1.5	
2-Chlorophenol	ND		1.5	
1,3-Dichlorobenzene	ND		1.5	
1,4-Dichlorobenzene	ND		1.5	
1,2-Dichlorobenzene	ND		1.5	
2-Methylphenol	ND		1.5	
2,2-Oxybis(1-chloropropane)	ND		1.5	
Acetophenone	ND		1.5	
4-Methylphenol	ND		1.5	
N-Nitrosodi-n-propylamine	ND		1.5	
Hexachloroethane	ND		1.5	
Nitrobenzene	ND		1.5	
N-Nitrosopiperidine	ND		1.5	
Isophorone	ND		1.5	
2-Nitrophenol	ND		1.5	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND		1.5	
2,4-Dichlorophenol	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 18:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2,4-Trichlorobenzene	ND		1.5	
Naphthalene	ND		1.5	
4-Chloroaniline	ND		1.5	
2,6-Dichlorophenol	ND		1.5	
Hexachloropropene	ND		1.5	
Hexachlorobutadiene	ND		1.5	
N-Nitrosodi-n-butylamine	ND		1.5	
4-Chloro-3-methylphenol	ND		1.5	
Isosafrole	ND		1.5	
2-Methylnaphthalene	ND		1.5	
1,2,4,5-Tetrachlorobenzene	ND		1.5	
Hexachlorocyclopentadiene	ND		1.5	
2,4,6-Trichlorophenol	ND		1.5	
2,4,5-Trichlorophenol	ND		1.5	
Safrole	ND		1.5	
2-Chloronaphthalene	ND		1.5	
1-Chloronaphthalene	ND		1.5	
2-Nitroaniline	ND		1.5	
1,4-Dinitrobenzene	ND		1.5	
Dimethylphthalate	ND		1.5	
1,3-Dinitrobenzene *	ND		1.5	
2,6-Dinitrotoluene	ND		1.5	
Acenaphthylene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 18:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2-Dinitrobenzene	ND		1.5	
3-Nitroaniline	ND		1.5	
Acenaphthene	ND		1.5	
2,4-Dinitrophenol	ND		5.0	
4-Nitrophenol	ND		1.5	
Dibenzofuran	ND		1.5	
2,4-Dinitrotoluene	ND		1.5	
Pentachlorobenzene	ND		1.5	
1-Naphthylamine	ND		1.5	
2-Naphthylamine	ND		1.5	
2,3,4,6-Tetrachlorophenol	ND		1.5	
Diethylphthalate	ND		1.5	
4-Chlorophenyl phenyl ether	ND		1.5	
Fluorene	ND		1.5	
4-Nitroaniline	ND		1.5	
4,6-Dinitro-2-methylphenol	ND		1.5	
Diphenylamine	ND		1.5	
Azobenzene *	ND		1.5	
Phenacetin	ND		1.5	
4-Bromophenyl phenyl ether	ND		1.5	
Hexachlorobenzene	ND		1.5	
Pentachlorophenol	ND		1.5	
Pronamide	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 18:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	
Carbazole	ND		1.5	
4-Nitrobiphenyl	ND		1.5	
Di-n-butylphthalate	ND		1.5	
5-Nitroacenaphthene	ND		1.5	
Isodrin	ND		1.5	
Fluoranthene	ND		1.5	
Pyrene	ND		1.5	
p-Dimethylaminoazobenzene	ND		1.5	
Butyl benzyl phthalate	ND		1.5	
3,3-Dichlorobenzidine	ND		1.5	
Benzo(a)anthracene	ND		1.5	
Chrysene	ND		1.5	
Bis(2-ethylhexyl)phthalate	ND		1.5	
Mestranol	ND		1.5	
Di-n-octylphthalate	ND		1.5	
Benzo(b)fluoranthene	ND		1.5	
7,12-Dimethylbenzo(a)anthracene	ND		1.5	
Benzo(k)fluoranthene	ND		1.5	
Benzo(a)pyrene	ND		1.5	
Indeno(1,2,3-cd)pyrene	ND		1.5	

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 18:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Dibenzo(a,h)anthracene	ND		1.5	
Benzo(ghi)perylene	ND		1.5	

Cyanide by EPA Method 335.4

Method:	335.4	Prepared:	04/03/14 08:51
Units:	mg/L	Analyzed:	04/03/14 13:20

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide	**0.005**		0.005	

pH

Method:	150.1	Prepared:	04/08/14 16:01
Units:	PH	Analyzed:	04/08/14 16:02

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.2**	Q	0.0	

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D TOTAL**	Lab Sample ID:	**SD40029-07**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Total	Sample Depth:	Total Depth:

Specific Conductance by Standard Method 2510B

Method:	2510B	Prepared:	04/23/14 13:48
Units:	umho/cm	Analyzed:	04/23/14 15:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Specific Conductance	**867.0**		10.00	

Total Dissolved Solids, Gravimetric, Dried at 180oC by Std. Method 2540C

Method:	2540C	Prepared:	04/07/14 14:22
Units:	mg/L	Analyzed:	04/07/14 14:22

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Dissolved Solids	**510**		10	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D DISSOLVED**	Lab Sample ID:	**SD40029-08**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Alkalinity by Standard Method 2320B

Method:	2320B	Prepared:	04/14/14 14:24
Units:	mg/L	Analyzed:	04/14/14 14:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Alkalinity	**485**		10.0	

Chloride by Standard Method 4500 Cl-E

Method:	4500-CL E	Prepared:	04/18/14 08:21
Units:	mg/L	Analyzed:	04/18/14 09:32

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Chloride	**1.88**		1.00	

Fluoride by Standard Method 4500-F C

Method:	4500F-C	Prepared:	04/02/14 11:32
Units:	mg/L	Analyzed:	04/02/14 14:25

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Fluoride	**0.31**		0.10	2

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D DISSOLVED**	Lab Sample ID:	**SD40029-08**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Mercury by EPA Method 245.1

Method:	245.1	Prepared:	04/07/14 13:22
Units:	ug/L	Analyzed:	04/09/14 10:07

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method:	6020	Prepared:	04/07/14 08:55
Units:	ug/L	Analyzed:	04/22/14 11:26

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony	ND		2.00	
Arsenic	**19.8**		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:36

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium	**92.5**		0.30	100000
Magnesium	**46.3**		0.30	100000

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04/28/14 15:53

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D DISSOLVED**	Lab Sample ID:	**SD40029-08**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:36

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Potassium	**2.34**		1.40	100000
Sodium	**28.2**		0.30	
Hardness	**422**		1.98	

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:36

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Aluminum	ND		60.0	40000
Barium	**186**		5.00	
Beryllium	ND		1.00	
Boron	**255**		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	**4130**		50.0	40000
Manganese	**33.1**		15.0	
Nickel	ND		5.00	
Silver	ND		3.00	
Strontium	**699**		5.00	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D DISSOLVED**	Lab Sample ID:	**SD40029-08**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:36

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vanadium	ND		5.00	
Zinc	ND		25.0	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/08/14 12:41
Units:	mg/L	Analyzed:	04/08/14 13:34

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (NO3	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/03/14 09:06
Units:	mg/L	Analyzed:	04/03/14 14:19

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**2.72**		0.10	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G49D DISSOLVED**	Lab Sample ID:	**SD40029-08**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 14:17
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/04/14 09:34
Units:	mg/L	Analyzed:	04/07/14 12:39

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.187**		0.0050	

Sulfate by EPA Method 375.2

Method:	375.2	Prepared:	04/08/14 07:29
Units:	mg/L	Analyzed:	04/08/14 13:07

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Sulfate	ND		10.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Volatile Organic Compounds by GC/MS

Method:	524.2	Prepared:	04/02/14 15:22
Units:	ug/L	Analyzed:	04/02/14 20:55

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vinyl chloride	ND		0.50	2
1,1-Dichloroethene	ND		0.50	7
Methylene chloride	ND		0.50	5
trans-1,2-Dichloroethene	ND		0.50	100
Methyl tert-butyl ether	ND		0.50	
cis-1,2-Dichloroethene	ND		0.50	70
1,2-Dichloroethane	ND		0.50	5
1,1,1-Trichloroethane	ND		0.50	200
Carbon tetrachloride	ND		0.50	5
Benzene	ND		0.50	5
1,2-Dichloropropane	ND		0.50	5
Trichloroethene	ND		0.50	5
1,1,2-Trichloroethane	ND		0.50	5
Toluene	ND		0.50	1000
Tetrachloroethene	ND		0.50	5
Chlorobenzene	ND		0.50	100
Ethylbenzene	ND		0.50	700
Styrene	ND		0.50	100
1,4-Dichlorobenzene	ND		0.50	75
1,2-Dichlorobenzene	ND		0.50	600
1,2,4-Trichlorobenzene	ND		0.50	70
Xylenes, total	ND		0.50	10000

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 19:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pyridine	ND		1.5	
2-Picoline	ND		1.5	
Methyl methanesulfonate	ND		1.5	
Ethyl methanesulfonate	ND		1.5	
Phenol	ND		1.5	
Bis(2-chloroethyl)ether	ND		1.5	
2-Chlorophenol	ND		1.5	
1,3-Dichlorobenzene	ND		1.5	
1,4-Dichlorobenzene	ND		1.5	
1,2-Dichlorobenzene	ND		1.5	
2-Methylphenol	ND		1.5	
2,2-Oxybis(1-chloropropane)	ND		1.5	
Acetophenone	ND		1.5	
4-Methylphenol	ND		1.5	
N-Nitrosodi-n-propylamine	ND		1.5	
Hexachloroethane	ND		1.5	
Nitrobenzene	ND		1.5	
N-Nitrosopiperidine	ND		1.5	
Isophorone	ND		1.5	
2-Nitrophenol	ND		1.5	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND		1.5	
2,4-Dichlorophenol	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 19:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2,4-Trichlorobenzene	ND		1.5	
Naphthalene	ND		1.5	
4-Chloroaniline	ND		1.5	
2,6-Dichlorophenol	ND		1.5	
Hexachloropropene	ND		1.5	
Hexachlorobutadiene	ND		1.5	
N-Nitrosodi-n-butylamine	ND		1.5	
4-Chloro-3-methylphenol	ND		1.5	
Isosafrole	ND		1.5	
2-Methylnaphthalene	ND		1.5	
1,2,4,5-Tetrachlorobenzene	ND		1.5	
Hexachlorocyclopentadiene	ND		1.5	
2,4,6-Trichlorophenol	ND		1.5	
2,4,5-Trichlorophenol	ND		1.5	
Safrole	ND		1.5	
2-Chloronaphthalene	ND		1.5	
1-Chloronaphthalene	ND		1.5	
2-Nitroaniline	ND		1.5	
1,4-Dinitrobenzene	ND		1.5	
Dimethylphthalate	ND		1.5	
1,3-Dinitrobenzene *	ND		1.5	
2,6-Dinitrotoluene	ND		1.5	
Acenaphthylene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 19:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
1,2-Dinitrobenzene	ND		1.5	
3-Nitroaniline	ND		1.5	
Acenaphthene	ND		1.5	
2,4-Dinitrophenol	ND		5.0	
4-Nitrophenol	ND		1.5	
Dibenzofuran	ND		1.5	
2,4-Dinitrotoluene	ND		1.5	
Pentachlorobenzene	ND		1.5	
1-Naphthylamine	ND		1.5	
2-Naphthylamine	ND		1.5	
2,3,4,6-Tetrachlorophenol	ND		1.5	
Diethylphthalate	ND		1.5	
4-Chlorophenyl phenyl ether	ND		1.5	
Fluorene	ND		1.5	
4-Nitroaniline	ND		1.5	
4,6-Dinitro-2-methylphenol	ND		1.5	
Diphenylamine	ND		1.5	
Azobenzene *	ND		1.5	
Phenacetin	ND		1.5	
4-Bromophenyl phenyl ether	ND		1.5	
Hexachlorobenzene	ND		1.5	
Pentachlorophenol	ND		1.5	
Pronamide	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 19:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	
Carbazole	ND		1.5	
4-Nitrobiphenyl	ND		1.5	
Di-n-butylphthalate	ND		1.5	
5-Nitroacenaphthene	ND		1.5	
Isodrin	ND		1.5	
Fluoranthene	ND		1.5	
Pyrene	ND		1.5	
p-Dimethylaminoazobenzene	ND		1.5	
Butyl benzyl phthalate	ND		1.5	
3,3-Dichlorobenzidine	ND		1.5	
Benzo(a)anthracene	ND		1.5	
Chrysene	ND		1.5	
Bis(2-ethylhexyl)phthalate	ND		1.5	
Mestranol	ND		1.5	
Di-n-octylphthalate	ND		1.5	
Benzo(b)fluoranthene	ND		1.5	
7,12-Dimethylbenzo(a)anthracene	ND		1.5	
Benzo(k)fluoranthene	ND		1.5	
Benzo(a)pyrene	ND		1.5	
Indeno(1,2,3-cd)pyrene	ND		1.5	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Semivolatiles by GC/MS

Method:	8270	Prepared:	04/02/14 08:29
Units:	ug/L	Analyzed:	04/07/14 19:11

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Dibenzo(a,h)anthracene	ND		1.5	
Benzo(ghi)perylene	ND		1.5	

Cyanide by EPA Method 335.4

Method:	335.4	Prepared:	04/03/14 08:51
Units:	mg/L	Analyzed:	04/03/14 13:21

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide	ND		0.005	

pH

Method:	150.1	Prepared:	04/08/14 16:01
Units:	PH	Analyzed:	04/08/14 16:02

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Laboratory pH	**7.2**	Q	0.0	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D TOTAL**	Lab Sample ID:	**SD40029-09**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Total	Sample Depth:	Total Depth:

Specific Conductance by Standard Method 2510B

Method:	2510B	Prepared:	04/23/14 13:48
Units:	umho/cm	Analyzed:	04/23/14 15:00

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Specific Conductance	**1017**		10.00	

Total Dissolved Solids, Gravimetric, Dried at 180oC by Std. Method 2540C

Method:	2540C	Prepared:	04/07/14 14:22
Units:	mg/L	Analyzed:	04/07/14 14:22

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Total Dissolved Solids	**544**		10	

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LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D DISSOLVED**	Lab Sample ID:	**SD40029-10**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Alkalinity by Standard Method 2320B

Method:	2320B	Prepared:	04/14/14 14:24
Units:	mg/L	Analyzed:	04/14/14 14:29

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Alkalinity	**570**		10.0	

Chloride by Standard Method 4500 Cl-E

Method:	4500-CL E	Prepared:	04/18/14 08:21
Units:	mg/L	Analyzed:	04/18/14 09:33

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Chloride	**2.53**		1.00	

Fluoride by Standard Method 4500-F C

Method:	4500F-C	Prepared:	04/02/14 11:32
Units:	mg/L	Analyzed:	04/02/14 14:25

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Fluoride	**0.35**		0.10	2

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Celeste Crowley, Acting Laboratory Manager, at 217.782.9780.

Reported:
04/28/14 15:53

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D DISSOLVED**	Lab Sample ID:	**SD40029-10**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Mercury by EPA Method 245.1

Method:	245.1	Prepared:	04/07/14 13:22
Units:	ug/L	Analyzed:	04/09/14 10:07

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method:	6020	Prepared:	04/07/14 08:55
Units:	ug/L	Analyzed:	04/22/14 11:28

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony	ND		2.00	
Arsenic	**50.4**		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:39

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium	**102**		0.30	100000
Magnesium	**49.5**		0.30	100000

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Reported:
04/28/14 15:53

Illinois Environmental Protection Agency Laboratory
825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D DISSOLVED**	Lab Sample ID:	**SD40029-10**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	mg/L	Analyzed:	04/08/14 09:39

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Potassium	**4.32**		1.40	100000
Sodium	**36.4**		0.30	
Hardness	**459**		1.98	

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:39

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Aluminum	**94.9**		60.0	40000
Barium	**281**		5.00	
Beryllium	ND		1.00	
Boron	**342**		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	**8220**		50.0	40000
Manganese	**63.8**		15.0	
Nickel	ND		5.00	
Silver	ND		3.00	
Strontium	**741**		5.00	

Reported:
04/28/14 15:53

Illinois Environmental Protection Agency Laboratory
825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D DISSOLVED**	Lab Sample ID:	**SD40029-10**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Metals by EPA Method 6010 - ICP

Method:	6010	Prepared:	04/07/14 08:52
Units:	ug/L	Analyzed:	04/08/14 09:39

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Vanadium	ND		5.00	
Zinc	ND		25.0	

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method:	353.2	Prepared:	04/08/14 12:41
Units:	mg/L	Analyzed:	04/08/14 13:35

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Nitrogen, Nitrite (NO2) + Nitrate (NO3	ND		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by EPA Method 350.3

Method:	350.3	Prepared:	04/03/14 09:06
Units:	mg/L	Analyzed:	04/03/14 14:19

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Ammonia as N	**12.2**		0.50	

Reported:
04/28/14 15:53

Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(
Client Sample ID:	**G90D DISSOLVED**	Lab Sample ID:	**SD40029-10**
Matrix:	Water	Collected By: JEFF TURNER	Date/Time Collected: 04/01/14 11:02
Sample Type:	Dissolved	Sample Depth:	Total Depth:

Phosphorus, All Forms, Colorimetric, Ascorbic by EPA Method 365.3

Method:	365.3	Prepared:	04/04/14 09:34
Units:	mg/L	Analyzed:	04/07/14 12:40

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Phosphorus as P	**0.303**		0.0050	

Sulfate by EPA Method 375.2

Method:	375.2	Prepared:	04/08/14 07:29
Units:	mg/L	Analyzed:	04/08/14 13:08

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Sulfate	ND		10.0	

Reported:
04/28/14 15:53

Illinois Environmental Protection Agency Laboratory
825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	**CLINTON LANDFILL #3**		
Project/Facility Number:	0390055036	Date Received :	04/01/14
Funding Code:	LP43	Visit Number:	
Trip ID:		Temperature C:	11.0(

Notes and Definitions

Q	Maximum holding time exceeded.
J3	The reported value failed to meet the established quality control criteria for either precision or accuracy possibly due to matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit
*	Non-NELAP accredited

Method 8270: Tentatively Identified Compounds (TICs) were detected in the semi-volatile analysis of samples SD40029-01 and SD40029-03. Please contact the laboratory if additional information about the TICs is needed.

Report Authorized by:

Celeste M. Crowley
Acting Laboratory Manager

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Reported:
04/28/14 15:53

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NELAP ACCREDITED TNI LABORATORY

Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Joyce Day

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-01**

Collect Date: **04/01/14 12:21**
Matrix: **Ground Water Regular Sample**

Sample Description: G16D

Parameters	Result		Qual	Prep Date	Analysis Date	Analyst	Method
Field - PIA							
BTM Well Elv	640.94	Feet		05/02/14 11:18	04/01/14 12:21	FIELD	Field
Depth of Water (ft below LS)	60.23	Feet		05/02/14 11:18	04/01/14 12:21	FIELD	Field
Depth, From Measuring Point	63.33	Feet		05/02/14 11:18	04/01/14 12:21	FIELD	Field
Elevation of GW	674.81	Feet		05/02/14 11:18	04/01/14 12:21	FIELD	Field
Elevation of Measuring Point (TOC)	738.14	Feet		05/02/14 11:18	04/01/14 12:21	FIELD	Field
pH, Field Measured	7.04	pH Units		05/02/14 11:18	04/01/14 12:21	FIELD	Field
Specific Conductance, Field Measured	1120	umhos/cm		05/02/14 11:18	04/01/14 12:21	FIELD	Field
Temperature, Field Measured	54.1	°F		05/02/14 11:18	04/01/14 12:21	FIELD	Field
General Chemistry - PIA							
Alkalinity, Bicarbonate Dissolved	660	mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Alkalinity, Carbonate Dissolved	< 2.0	mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Cyanide	< 0.0050	mg/L		04/04/14 15:04	04/07/14 13:31	lgsjf	SM 4500CN C 18Ed - EPA 335.4
Oil & Grease - total	< 5.2	mg/L		04/03/14 08:13	04/03/14 13:12	SMP	EPA 1664A
Phenolics	< 5.0	ug/L		04/03/14 10:44	04/07/14 10:49	lgsjf	EPA 420.4 - QC 10-210-00-1A
Solids - total dissolved solids (TDS)	620	mg/L		04/02/14 13:36	04/02/14 14:47	ACL	SM 2540C 18Ed
Soluble Anions - PIA							
Chloride, Dissolved	< 10	mg/L		04/02/14 14:42	04/02/14 14:42	TAS	EPA 300.0 R2.1
Nitrate, Dissolved	< 0.02	mg/L		04/02/14 14:25	04/02/14 14:25	TAS	EPA 300.0 R2.1
Sulfate, Dissolved	< 1.0	mg/L		04/02/14 14:25	04/02/14 14:25	TAS	EPA 300.0 R2.1
Soluble Metals - PIA							
Arsenic, Dissolved	29	ug/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Boron, Dissolved	420	ug/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Cadmium, Dissolved	< 1.0	ug/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Calcium, Dissolved	97	mg/L		04/02/14 13:53	04/04/14 09:05	JMW	SW 6020
Chromium, Dissolved	< 4.0	ug/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Lead, Dissolved	< 1.0	ug/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Magnesium, Dissolved	55	mg/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Mercury, Dissolved	< 0.20	ug/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Potassium, Dissolved	5.2	mg/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-01**

Collect Date: **04/01/14 12:21**
Matrix: **Ground Water Regular Sample**

Sample Description: G16D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Soluble Metals - PIA						
Sodium, Dissolved	33 mg/L		04/02/14 13:53	04/02/14 19:26	JMW	SW 6020
Zinc, Dissolved	< 6.0 ug/L		04/02/14 13:53	04/03/14 17:33	JMW	SW 6020
Soluble Nutrients - PIA						
Ammonia, Dissolved	8.0 mg/L		04/04/14 08:27	04/04/14 11:36	lgbrs	EPA 350.1 - QC 10-107-06-1-I & J
Volatile Organics - PIA						
1,1,1,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,1,1-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,1,2,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,1,2-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,1-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,1-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,1-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2,3-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2,3-Trichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2,4-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2,4-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2-Dibromo-3-Chloropropane	< 0.05 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2-Dibromoethane	< 0.05 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,3,5-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,3-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,3-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,3-Dichloropropene- Total	< 2.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
1,4-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
2,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
2-Butanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
2-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
2-Hexanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-01**

Collect Date: **04/01/14 12:21**
Matrix: **Ground Water Regular Sample**

Sample Description: G16D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
4-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
4-Methyl-2-pentanone (MIBK)	< 5.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Acetone	< 10 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Acrylonitrile	< 50 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Benzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Bromobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Bromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Bromodichloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Bromoform	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Bromomethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Carbon disulfide	< 4.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Carbon tetrachloride	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Chlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Chloroethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Chloroform	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Chloromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
cis-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
cis-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Dibromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Dibromomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Dichlorodifluoromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Ethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Hexachlorobutadiene	< 10 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Iodomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Isopropylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Methylene chloride	< 7.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Naphthalene	< 10 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
n-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
n-Propylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
p-Isopropyl toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
sec-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-01**

Collect Date: **04/01/14 12:21**
Matrix: **Ground Water Regular Sample**

Sample Description: G16D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Styrene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
tert-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Tetrachloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Tetrahydrofuran	< 20 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
trans-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
trans-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
trans-1,4-Dichloro-2-butene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Trichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Trichlorofluoromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Vinyl acetate	< 5.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Vinyl chloride	< 2.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B
Xylenes- Total	< 3.0 ug/L		04/04/14 00:00	04/04/14 16:53	JJI	SW 8260B

Sample No: **4040187-02**

Collect Date: **04/01/14 11:08**
Matrix: **Ground Water Regular Sample**

Sample Description: G25D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Field - PIA						
BTM Well Elv	629.12 Feet		05/02/14 11:18	04/01/14 11:08	FIELD	Field
Depth of Water (ft below LS)	-3.05 Feet		05/02/14 11:18	04/01/14 11:08	FIELD	Field
Depth, From Measuring Point	2.27 Feet		05/02/14 11:18	04/01/14 11:08	FIELD	Field
Elevation of GW	674.95 Feet		05/02/14 11:18	04/01/14 11:08	FIELD	Field
Elevation of Measuring Point (TOC)	677.22 Feet		05/02/14 11:18	04/01/14 11:08	FIELD	Field
pH, Field Measured	6.93 pH Units		05/02/14 11:18	04/01/14 11:08	FIELD	Field
Specific Conductance, Field Measured	1000 umhos/cm		05/02/14 11:18	04/01/14 11:08	FIELD	Field
Temperature, Field Measured	49.8 °F		05/02/14 11:18	04/01/14 11:08	FIELD	Field
General Chemistry - PIA						

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-02**

Collect Date: **04/01/14 11:08**
Matrix: **Ground Water Regular Sample**

Sample Description: G25D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Alkalinity, Bicarbonate Dissolved	580 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Alkalinity, Carbonate Dissolved	< 2.0 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Cyanide	< 0.0050 mg/L		04/04/14 15:04	04/07/14 13:33	lgsjf	SM 4500CN C 18Ed - EPA 335.4
Oil & Grease - total	< 5.3 mg/L		04/03/14 08:13	04/03/14 13:12	SMP	EPA 1664A
Phenolics	< 5.0 ug/L		04/03/14 10:44	04/07/14 10:03	lgsjf	EPA 420.4 - QC 10-210-00-1A
Solids - total dissolved solids (TDS)	560 mg/L		04/02/14 13:36	04/02/14 14:47	ACL	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride, Dissolved	< 10 mg/L		04/02/14 15:15	04/02/14 15:15	TAS	EPA 300.0 R2.1
Nitrate, Dissolved	< 0.02 mg/L		04/02/14 14:58	04/02/14 14:58	TAS	EPA 300.0 R2.1
Sulfate, Dissolved	2.3 mg/L		04/02/14 14:58	04/02/14 14:58	TAS	EPA 300.0 R2.1
Soluble Metals - PIA						
Arsenic, Dissolved	53 ug/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Boron, Dissolved	360 ug/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Cadmium, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Calcium, Dissolved	94 mg/L		04/02/14 13:53	04/04/14 09:08	JMW	SW 6020
Chromium, Dissolved	< 4.0 ug/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Lead, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Magnesium, Dissolved	45 mg/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Mercury, Dissolved	< 0.20 ug/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Potassium, Dissolved	4.6 mg/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Sodium, Dissolved	34 mg/L		04/02/14 13:53	04/02/14 19:30	JMW	SW 6020
Zinc, Dissolved	< 6.0 ug/L		04/02/14 13:53	04/03/14 17:36	JMW	SW 6020
Soluble Nutrients - PIA						
Ammonia, Dissolved	8.4 mg/L		04/04/14 08:27	04/04/14 11:40	lgbrs	EPA 350.1 - QC 10-107-06-1-I & J
Volatile Organics - PIA						
1,1,1,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,1,1-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,1,2,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,1,2-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B

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Clinton Landfill
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Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-02**

Collect Date: **04/01/14 11:08**
Matrix: **Ground Water Regular Sample**

Sample Description: G25D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
1,1-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,1-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,1-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2,3-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2,3-Trichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2,4-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2,4-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2-Dibromo-3-Chloropropane	< 0.05 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2-Dibromoethane	< 0.05 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,3,5-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,3-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,3-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,3-Dichloropropene- Total	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
1,4-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
2,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
2-Butanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
2-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
2-Hexanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
4-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
4-Methyl-2-pentanone (MIBK)	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Acetone	< 10 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Acrylonitrile	< 50 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Benzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Bromobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Bromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Bromodichloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Bromoform	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Bromomethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B

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Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-02**

Collect Date: **04/01/14 11:08**
Matrix: **Ground Water Regular Sample**

Sample Description: G25D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Carbon disulfide	< 4.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Carbon tetrachloride	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Chlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Chloroethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Chloroform	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Chloromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
cis-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
cis-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Dibromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Dibromomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Dichlorodifluoromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Ethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Hexachlorobutadiene	< 10 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Iodomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Isopropylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Methylene chloride	< 7.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Naphthalene	< 10 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
n-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
n-Propylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
p-Isopropyl toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
sec-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Styrene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
tert-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Tetrachloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Tetrahydrofuran	< 20 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
trans-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
trans-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
trans-1,4-Dichloro-2-butene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Trichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Trichlorofluoromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B

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Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040187-02**

Collect Date: **04/01/14 11:08**
Matrix: **Ground Water Regular Sample**

Sample Description: G25D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Vinyl acetate	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Vinyl chloride	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B
Xylenes- Total	< 3.0 ug/L		04/04/14 00:00	04/04/14 17:21	JJI	SW 8260B

Sample No: **4040188-01**

Collect Date: **04/01/14 09:46**
Matrix: **Ground Water Regular Sample**

Sample Description: G02D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Field - PIA						
BTM Well Elv	627.43 Feet		05/02/14 11:18	04/01/14 09:46	FIELD	Field
Depth of Water (ft below LS)	55.42 Feet		05/02/14 11:18	04/01/14 09:46	FIELD	Field
Depth, From Measuring Point	58.3 Feet		05/02/14 11:18	04/01/14 09:46	FIELD	Field
Elevation of GW	675.13 Feet		05/02/14 11:18	04/01/14 09:46	FIELD	Field
Elevation of Measuring Point (TOC)	733.43 Feet		05/02/14 11:18	04/01/14 09:46	FIELD	Field
pH, Field Measured	6.80 pH Units		05/02/14 11:18	04/01/14 09:46	FIELD	Field
Specific Conductance, Field Measured	1330 umhos/cm		05/02/14 11:18	04/01/14 09:46	FIELD	Field
Temperature, Field Measured	50.5 °F		05/02/14 11:18	04/01/14 09:46	FIELD	Field
General Chemistry - PIA						
Alkalinity, Bicarbonate Dissolved	750 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Alkalinity, Carbonate Dissolved	< 2.0 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Cyanide	< 0.0050 mg/L		04/04/14 15:04	04/07/14 13:40	lgsjf	SM 4500CN C 18Ed - EPA 335.4
Solids - total dissolved solids (TDS)	700 mg/L		04/03/14 15:08	04/03/14 15:27	ACL	SM 2540C 18Ed
Miscellaneous - American Water						
Perchlorate	< ug/L					Subcontracted
Polychlorinated Biphenyls (PCBs) - PIA						
Aroclors - Total	< 1.0 ug/L		04/03/14 08:30	04/05/14 03:03	JMT	SW 8082
Polynuclear Aromatic Hydrocarbons - PIA						

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Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-01**

Collect Date: **04/01/14 09:46**
Matrix: **Ground Water Regular Sample**

Sample Description: G02D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Polynuclear Aromatic Hydrocarbons - PIA						
Acenaphthene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Acenaphthylene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Anthracene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Benzo(a)anthracene	< 0.13 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Benzo(a)pyrene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Benzo(b)fluoranthene	< 0.18 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Benzo(g,h,i)perylene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Benzo(k)fluoranthene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Chrysene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Dibenzo(a,h)anthracene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Fluoranthene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Indeno(1,2,3-cd)pyrene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Phenanthrene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Pyrene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:11	djb;	SW 8310
Soluble Anions - PIA						
Chloride, Dissolved	5.7 mg/L		04/03/14 18:20	04/03/14 18:20	TAS	EPA 300.0 R2.1
Nitrate, Dissolved	< 0.02 mg/L		04/02/14 13:52	04/02/14 13:52	TAS	EPA 300.0 R2.1
Sulfate, Dissolved	< 1.0 mg/L		04/02/14 13:52	04/02/14 13:52	TAS	EPA 300.0 R2.1
Soluble Metals - PIA						
Arsenic, Dissolved	7.8 ug/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Boron, Dissolved	530 ug/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Cadmium, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Calcium, Dissolved	130 mg/L		04/02/14 13:53	04/04/14 09:11	JMW	SW 6020
Chromium, Dissolved	< 4.0 ug/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Lead, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Magnesium, Dissolved	49 mg/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Mercury, Dissolved	< 0.20 ug/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Potassium, Dissolved	7.4 mg/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Sodium, Dissolved	35 mg/L		04/02/14 13:53	04/02/14 19:34	JMW	SW 6020
Zinc, Dissolved	< 6.0 ug/L		04/02/14 13:53	04/03/14 17:39	JMW	SW 6020

4040187

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Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-01**

Collect Date: **04/01/14 09:46**
Matrix: **Ground Water Regular Sample**

Sample Description: G02D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Soluble Nutrients - PIA						
Ammonia, Dissolved	15 mg/L		04/04/14 08:27	04/04/14 11:42	lgbrs	EPA 350.1 - QC 10-107-06-1-I & J
Volatile Organics - PIA						
1,1,1,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,1,1-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,1,2,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,1,2-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,1-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,1-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,1-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2,3-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2,3-Trichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2,4-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2,4-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2-Dibromo-3-Chloropropane	< 0.05 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2-Dibromoethane	< 0.05 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,3,5-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,3-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,3-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,3-Dichloropropene- Total	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
1,4-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
2,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
2-Butanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
2-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
2-Hexanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
4-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
4-Methyl-2-pentanone (MIBK)	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Acetone	< 10 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B

PDC Laboratories, Inc.
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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-01**

Collect Date: **04/01/14 09:46**
Matrix: **Ground Water Regular Sample**

Sample Description: G02D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Acrylonitrile	< 50 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Benzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Bromobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Bromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Bromodichloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Bromoform	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Bromomethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Carbon disulfide	< 4.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Carbon tetrachloride	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Chlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Chloroethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Chloroform	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Chloromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
cis-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
cis-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Dibromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Dibromomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Dichlorodifluoromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Ethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Hexachlorobutadiene	< 10 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Iodomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Isopropylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Methylene chloride	< 7.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Naphthalene	< 10 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
n-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
n-Propylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
p-Isopropyl toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
sec-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Styrene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
tert-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Tetrachloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B

4040187

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-01**

Collect Date: **04/01/14 09:46**
Matrix: **Ground Water Regular Sample**

Sample Description: G02D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Tetrahydrofuran	< 20 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
trans-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
trans-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
trans-1,4-Dichloro-2-butene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Trichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Trichlorofluoromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Vinyl acetate	< 5.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Vinyl chloride	< 2.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B
Xylenes- Total	< 3.0 ug/L		04/04/14 00:00	04/04/14 17:49	JJI	SW 8260B

Sample No: **4040188-02**

Collect Date: **04/01/14 14:19**
Matrix: **Ground Water Regular Sample**

Sample Description: G49D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Field - PIA						
BTM Well Elv	626.38 Feet		05/02/14 11:18	04/01/14 14:19	FIELD	Field
Depth of Water (ft below LS)	39.35 Feet		05/02/14 11:18	04/01/14 14:19	FIELD	Field
Depth, From Measuring Point	41.95 Feet		05/02/14 11:18	04/01/14 14:19	FIELD	Field
Elevation of GW	660.68 Feet		05/02/14 11:18	04/01/14 14:19	FIELD	Field
Elevation of Measuring Point (TOC)	702.63 Feet		05/02/14 11:18	04/01/14 14:19	FIELD	Field
pH, Field Measured	6.93 pH Units		05/02/14 11:18	04/01/14 14:19	FIELD	Field
Specific Conductance, Field Measured	854.0 umhos/cm		05/02/14 11:18	04/01/14 14:19	FIELD	Field
Temperature, Field Measured	54.7 °F		05/02/14 11:18	04/01/14 14:19	FIELD	Field
General Chemistry - PIA						
Alkalinity, Bicarbonate Dissolved	490 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Alkalinity, Carbonate Dissolved	< 2.0 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Cyanide	< 0.0050 mg/L		04/04/14 15:04	04/07/14 13:40	lgsjf	SM 4500CN C 18Ed - EPA 335.4

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Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-02**

Collect Date: **04/01/14 14:19**
Matrix: **Ground Water Regular Sample**

Sample Description: G49D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Solids - total dissolved solids (TDS)	480 mg/L		04/03/14 15:08	04/03/14 15:27	ACL	SM 2540C 18Ed
Polychlorinated Biphenyls (PCBs) - PIA						
Aroclors - Total	< 1.0 ug/L		04/03/14 08:30	04/05/14 03:38	JMT	SW 8082
Polynuclear Aromatic Hydrocarbons - PIA						
Acenaphthene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Acenaphthylene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Anthracene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Benzo(a)anthracene	< 0.13 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Benzo(a)pyrene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Benzo(b)fluoranthene	< 0.18 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Benzo(g,h,i)perylene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Benzo(k)fluoranthene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Chrysene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Dibenzo(a,h)anthracene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Fluoranthene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Indeno(1,2,3-cd)pyrene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Phenanthrene	< 2.0 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Pyrene	< 0.20 ug/L		04/03/14 08:33	04/05/14 11:37	djb;	SW 8310
Soluble Anions - PIA						
Chloride, Dissolved	< 10 mg/L		04/02/14 15:48	04/02/14 15:48	TAS	EPA 300.0 R2.1
Nitrate, Dissolved	< 0.02 mg/L		04/02/14 15:31	04/02/14 15:31	TAS	EPA 300.0 R2.1
Sulfate, Dissolved	3.1 mg/L		04/02/14 15:31	04/02/14 15:31	TAS	EPA 300.0 R2.1
Soluble Metals - PIA						
Arsenic, Dissolved	20 ug/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Boron, Dissolved	270 ug/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Cadmium, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Calcium, Dissolved	81 mg/L		04/02/14 13:53	04/04/14 09:13	JMW	SW 6020
Chromium, Dissolved	< 4.0 ug/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Lead, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Magnesium, Dissolved	43 mg/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020

4040187

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-02**

Collect Date: **04/01/14 14:19**
Matrix: **Ground Water Regular Sample**

Sample Description: G49D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Soluble Metals - PIA						
Mercury, Dissolved	< 0.20 ug/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Potassium, Dissolved	2.6 mg/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Sodium, Dissolved	27 mg/L		04/02/14 13:53	04/02/14 20:02	JMW	SW 6020
Zinc, Dissolved	< 6.0 ug/L		04/02/14 13:53	04/03/14 17:49	JMW	SW 6020
Soluble Nutrients - PIA						
Ammonia, Dissolved	2.0 mg/L		04/04/14 08:27	04/04/14 11:43	lgbrs	EPA 350.1 - QC 10-107-06-1-I & J
Volatile Organics - PIA						
1,1,1,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,1,1-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,1,2,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,1,2-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,1-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,1-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,1-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2,3-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2,3-Trichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2,4-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2,4-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2-Dibromo-3-Chloropropane	< 0.05 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2-Dibromoethane	< 0.05 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,3,5-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,3-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,3-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,3-Dichloropropene- Total	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
1,4-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
2,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
2-Butanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B

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Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-02**

Collect Date: **04/01/14 14:19**
Matrix: **Ground Water Regular Sample**

Sample Description: G49D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
2-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
2-Hexanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
4-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
4-Methyl-2-pentanone (MIBK)	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Acetone	< 10 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Acrylonitrile	< 50 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Benzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Bromobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Bromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Bromodichloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Bromoform	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Bromomethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Carbon disulfide	< 4.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Carbon tetrachloride	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Chlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Chloroethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Chloroform	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Chloromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
cis-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
cis-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Dibromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Dibromomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Dichlorodifluoromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Ethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Hexachlorobutadiene	< 10 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Iodomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Isopropylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Methylene chloride	< 7.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Naphthalene	< 10 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
n-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
n-Propylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040188-02**

Collect Date: **04/01/14 14:19**
Matrix: **Ground Water Regular Sample**

Sample Description: G49D

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
p-Isopropyl toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
sec-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Styrene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
tert-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Tetrachloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Tetrahydrofuran	< 20 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
trans-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
trans-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
trans-1,4-Dichloro-2-butene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Trichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Trichlorofluoromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Vinyl acetate	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Vinyl chloride	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B
Xylenes- Total	< 3.0 ug/L		04/04/14 00:00	04/04/14 18:17	JJI	SW 8260B

Sample No: **4040198-01**

Collect Date: **04/01/14 14:30**
Matrix: **Ground Water Field Blank**

Sample Description: Field Blank 1

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Alkalinity, Bicarbonate Dissolved	< 2.0 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Alkalinity, Carbonate Dissolved	< 2.0 mg/L		04/08/14 06:30	04/08/14 06:30	BNS	SM 2320B 18Ed
Cyanide	< 0.0050 mg/L		04/04/14 15:04	04/07/14 13:41	lgsjf	SM 4500CN C 18Ed - EPA 335.4
Solids - total dissolved solids (TDS)	40 mg/L		04/02/14 13:36	04/02/14 14:47	ACL	SM 2540C 18Ed
Polychlorinated Biphenyls (PCBs) - PIA						
Aroclors - Total	< 1.0 ug/L		04/03/14 08:30	04/05/14 04:12	JMT	SW 8082
Polynuclear Aromatic Hydrocarbons - PIA						

4040187

PDC Laboratories, Inc.
2231 W. Altorfer Drive • Peoria, IL 61615
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040198-01**

Collect Date: **04/01/14 14:30**
Matrix: **Ground Water Field Blank**

Sample Description: Field Blank 1

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Polynuclear Aromatic Hydrocarbons - PIA						
Acenaphthene	< 2.0 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Acenaphthylene	< 2.0 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Anthracene	< 2.0 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Benzo(a)anthracene	< 0.13 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Benzo(a)pyrene	< 0.20 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Benzo(b)fluoranthene	< 0.18 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Benzo(g,h,i)perylene	< 0.20 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Benzo(k)fluoranthene	< 0.20 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Chrysene	< 0.20 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Dibenzo(a,h)anthracene	< 2.0 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Fluoranthene	< 0.20 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Indeno(1,2,3-cd)pyrene	< 2.0 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Phenanthrene	< 2.0 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Pyrene	< 0.20 ug/L		04/03/14 08:33	04/05/14 12:03	djb;	SW 8310
Soluble Anions - PIA						
Chloride, Dissolved	< 1.0 mg/L		04/02/14 13:29	04/02/14 13:29	TAS	EPA 300.0 R2.1
Nitrate, Dissolved	< 0.02 mg/L		04/02/14 13:29	04/02/14 13:29	TAS	EPA 300.0 R2.1
Sulfate, Dissolved	< 1.0 mg/L		04/02/14 13:29	04/02/14 13:29	TAS	EPA 300.0 R2.1
Soluble Metals - PIA						
Arsenic, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Boron, Dissolved	< 10 ug/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Cadmium, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Calcium, Dissolved	< 0.10 mg/L		04/02/14 13:53	04/04/14 09:16	JMW	SW 6020
Chromium, Dissolved	< 4.0 ug/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Lead, Dissolved	< 1.0 ug/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Magnesium, Dissolved	< 0.10 mg/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Mercury, Dissolved	< 0.20 ug/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Potassium, Dissolved	< 0.10 mg/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Sodium, Dissolved	< 0.10 mg/L		04/02/14 13:53	04/02/14 20:07	JMW	SW 6020
Zinc, Dissolved	< 6.0 ug/L		04/02/14 13:53	04/03/14 17:52	JMW	SW 6020

PDC Laboratories, Inc.
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(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040198-01**

Collect Date: **04/01/14 14:30**
Matrix: **Ground Water Field Blank**

Sample Description: Field Blank 1

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Soluble Nutrients - PIA						
Ammonia, Dissolved	< 0.10 mg/L		04/04/14 08:27	04/04/14 11:44	lgbrs	EPA 350.1 - QC 10-107-06-1-I & J
Volatile Organics - PIA						
1,1,1,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,1,1-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,1,2,2-Tetrachloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,1,2-Trichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,1-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,1-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,1-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2,3-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2,3-Trichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2,4-Trichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2,4-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2-Dibromo-3-Chloropropane	< 0.05 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2-Dibromoethane	< 0.05 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2-Dichloroethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,3,5-Trimethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,3-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,3-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,3-Dichloropropene- Total	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
1,4-Dichlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
2,2-Dichloropropane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
2-Butanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
2-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
2-Hexanone	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
4-Chlorotoluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
4-Methyl-2-pentanone (MIBK)	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Acetone	< 10 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040198-01**

Collect Date: **04/01/14 14:30**
Matrix: **Ground Water Field Blank**

Sample Description: Field Blank 1

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Acrylonitrile	< 50 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Benzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Bromobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Bromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Bromodichloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Bromoform	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Bromomethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Carbon disulfide	< 4.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Carbon tetrachloride	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Chlorobenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Chloroethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Chloroform	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Chloromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
cis-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
cis-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Dibromochloromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Dibromomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Dichlorodifluoromethane	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Ethylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Hexachlorobutadiene	< 10 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Iodomethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Isopropylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Methylene chloride	< 7.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Naphthalene	< 10 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
n-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
n-Propylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
p-Isopropyl toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
sec-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Styrene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
tert-Butylbenzene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Tetrachloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B

4040187

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Clinton Landfill
C/O PDC Technical Services 4349 Southport Rd
Peoria, IL 61615
Attn: Andrew Whelpley

Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Sample No: **4040198-01**

Collect Date: **04/01/14 14:30**
Matrix: **Ground Water Field Blank**

Sample Description: Field Blank 1

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
Volatile Organics - PIA						
Tetrahydrofuran	< 20 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Toluene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
trans-1,2-Dichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
trans-1,3-Dichloropropene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
trans-1,4-Dichloro-2-butene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Trichloroethene	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Trichlorofluoromethane	< 1.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Vinyl acetate	< 5.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Vinyl chloride	< 2.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B
Xylenes- Total	< 3.0 ug/L		04/04/14 00:00	04/04/14 18:45	JJI	SW 8260B

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Peoria, IL 61615
Attn: Andrew Whelpley

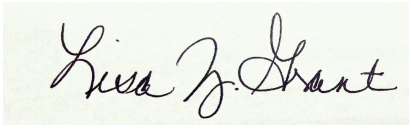
Date Received: 04/01/14 15:30
Report Date: 05/02/14
Customer #: 280105

Laboratory Results

Notes

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

PIA PDC Laboratories - Peoria, IL
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389



Certified by: Lisa Grant, Project Manager

American Water
1115 South Illinois Street
Belleville, IL 62220-3102
Phone: (618) 235-3600
Fax: (618) 235-6349

April 8, 2014

Lisa Grant
PDC Laboratories Inc
2231 W Altorfer Drive
Peoria, IL 61615

RE: Workorder: 256818 PDC PERC 4040188-01
Workorder: 1048 PDC Labs

Dear Lisa Grant:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, April 03, 2014. All analyses are performed using approved drinking water methodologies and meet method requirements unless otherwise noted. Each state may not offer certification for all analyses reported.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Nettrour (Digitally Signed)

CERTIFICATE OF ANALYSIS

American Water
1115 South Illinois Street
Belleville, IL 62220-3102
Phone: (618) 235-3600
Fax: (618) 235-6349

SAMPLE SUMMARY

Client: PDC Labs PDC Laboratories Inc - IL
Profile: 1048 PDC Laboratories Inc - IL
Workorder: 256818 PDC PERC 4040188-01

Lab ID	Sample ID	Matrix		
PWSID	Facility ID	Site ID	Site Sample Type	Certified Lab ID
25681801	**4040188-01**		**Drinking Water**	
	NA	NA	Other	100203

CERTIFICATE OF ANALYSIS

American Water
1115 South Illinois Street
Belleville, IL 62220-3102
Phone: (618) 235-3600
Fax: (618) 235-6349

PROJECT SUMMARY

Client: PDC Labs PDC Laboratories Inc - IL
Profile: 1048 PDC Laboratories Inc - IL
Workorder: 256818 PDC PERC 4040188-01

Workorder Comments

Samples related to PO #L42261.

CERTIFICATE OF ANALYSIS

American Water
1115 South Illinois Street
Belleville, IL 62220-3102
Phone: (618) 235-3600
Fax: (618) 235-6349

ANALYTICAL RESULTS

Client: PDC Labs PDC Laboratories Inc - IL
Profile: 1048 PDC Laboratories Inc - IL
Workorder: 256818 PDC PERC 4040188-01

FOR COMPLIANCE

Lab ID: **25681801** Date Received: 4/3/2014 09:30 Matrix: Drinking Water
Sample ID: **4040188-01** Date Collected: 4/1/2014 09:46

Parameters	Results	Units	RDL	DF	Prepared	By	Analyzed	By	Qual	MCL Sec / Prim
ANIONS										
EPA 314.0			Analytical Method: EPA 314.0							
Perchlorate	ND	ug/L	4.0	1			4/7/2014 13:48	LKR		

CERTIFICATE OF ANALYSIS

Chain of Custody Cover Sheet

256818

Client	PDC Labs	PDC Laboratories Inc - IL
Profile	1048	PDC Laboratories Inc - IL
WO	PDC PERC	

See Attached COC

SUBCONTRACT ORDER

PDC Laboratories, Inc.

4040188

SENDING LABORATORY:

✓ PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
___ PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
___ PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager. Lisa Grant lgrant@pdclab com Phone: 309-683-1764

Date Shipped 4-2-14

RECEIVING LABORATORY:

American Water
1115 South Illinois Street
Belleville, IL 62220
Phone (618) 222-4066

Sample Origin (State) IL

PO# L42261

Total # of Containers 1

Analysis	Due	Expires	Comments
Sample ID: 4040188-01	**Water**	**Sampled:04/01/14 09:46**	25681801
01-Perchlorate	04/11/14 16:00	04/29/14 09 46	

APR 03 2014

Turn-Around Time Requested (circle one): (NORMAL) RUSH Date Results Needed: _____

Allen J. Hoy	4-2-14 10:25			Sample Temperature Upon Receipt	____ C
				Sample(s) Received on Ice	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Samples Received Within Hold Time	Y or N
				Date/Time Taken From Sample Bottle	Y or N

Page 1 of 1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Part 811 Landfill Groundwater Record Review

County: DeWitt | LPC #: 0390055036 | Region: 4 - Champaign

Location/Site Name: Clinton/Clinton Landfill 3

Date of Review: 05/07/2014 | Related Inspection Date: 04/01/2014

Reviewer: Jeff Turner | Document(s) Reviewed: split sample data

Facility Contact: David Bryant | Facility Phone #: 217/935-8028

Permitted Owner Mailing Address

Clinton Landfill, Inc.
Attn: Ron Welk
4700 N. Sterling Avenue, POB 9071
Peoria, IL 61612-9071

Permitted Operator Mailing Address

Clinton Landfill, Inc.
Attn: Ron Welk
4700 N. Sterling Avenue, POB 9071
Peoria, IL 61612-9071

Chief Operator Mailing Address

Clinton Landfill 3
Attn: James Decker
4700 N. Sterling Avenue, POB 9071
Peoria, IL 61612

Certified Operator Mailing Address

Clinton Landfill 3
Attn: David Bryant
9550 Heritage Road-C
Clinton, IL 61727

Authorization:

Permit: 2005-070-LF

Most recent mod #: 45

Operational Status:

Operating ☒

Closed—Not Cert. ☐

Closed—Certified ☐ Date:

Section	Description	Viol.
	Illinois Environmental Protection Act Requirements	
12(a)	**Cause, threaten or allow water pollution in Illinois**	☐
21(d)	**Conduct any waste-storage, waste-treatment, or waste-disposal operation:**	
(1)	without a permit or in violation of any conditions of a permit (see permit provisions)	☐
(2)	in violation of any regulations or standards adopted by the Board	☐
21(o)(11)	**Conduct a sanitary landfill operation which results in any of the following conditions:** failure to submit reports required by permits or Board regulations	☐
22.17	**Landfill Post-Closure Care**	
(a)	Failure to monitor gas, water, settling	☐**NA**
(b)	Failure to take remedial action	☐**NA**
	35 Illinois Administrative Code Requirements Subtitle G	
Part 811 Subpart C	**Putrescible and Chemical Waste Landfills**	
811.318(e)	**Design, Construction, and Operation of Groundwater Monitoring Systems:** Standards for sample collection and analysis	☐
811.319	**Groundwater Monitoring Programs**	

(a)	Detection Monitoring Program	☐
(b)	Assessment Monitoring	☐**NA**
(c)	Assessment Report	☐**NA**
(d)	Remedial Action	☐**NA**
811.320	**Groundwater Quality Standards**	
(a)	Applicable Groundwater Quality Standards (AGQSs)	☐
(d)	Establishment of Background Concentrations	☐**NE**
(e)	Statistical Analysis of Groundwater Monitoring Data	☐
811.324	**Corrective Action Measures for MSWLF Units**	☐**NA**
811.325	**Selection of remedy for MSWLF Units**	☐**NA**
811.326	**Implementation of the corrective action program at MSWLF Units**	☐**NA**
Part 813 Subpart E	**Certification and Reports**	
813.502	**Groundwater Reports**	☐
813.504	**Annual Report**	☐

Permit Provisions		
Permit	**Description of Violation** (condition # of permit, page # of permit, and/or page # of approved application)	
		☐
		☐
		☐
		☐

Other Requirements		
	Description of Violation (examples: IPCB order, court order. Include case/order number and order entry date.)	
		☐
		☐

Informational Notes

1. [Illinois] Environmental Protection Act: 415 ILCS 5/4.
2. Illinois Pollution Control Board: 35 Ill. Adm. Code, Subtitle G.
3. Statutory and regulatory references herein are provided for convenience only and should not be construed as legal conclusions of the Agency or as limiting the Agency's statutory or regulatory powers. Requirements of statutes and regulations cited are in summary format. Full text of requirements can be found in references listed in 1. and 2. above.
4. The provisions of subsection (o) of Section 21 of the [Illinois] Environmental Protection Act shall be enforceable either by administrative citation under Section 31.1 of the Act or by complaint under Section 31 of the Act.
5. This inspection was conducted in accordance with Sections 4(c) and 4(d) of the [Illinois] Environmental Protection Act: 415 ILCS 5/4(c) and (d).
6. Items marked with an “NE” were not evaluated at the time of this inspection.
7. Items marked with an “NA” were not applicable at the time of this inspection.