



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **C-4** Lab Sample ID: **21F0774-01**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/20/21 09:00

Units: ug/L Analyzed: 06/20/21 18:44

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloromethane	ND		2.0	
Vinyl chloride	ND		2.0	
Bromomethane	ND		5.0	
Chloroethane	ND		2.0	
Trichlorofluoromethane	ND		2.0	
Acetone	30		10	
1,1-Dichloroethene	ND		2.0	
Methylene chloride	ND		5.0	
Carbon disulfide	24		2.0	
trans-1,2-Dichloroethene	ND		2.0	
Methyl tert-butyl ether	ND		2.0	
1,1-Dichloroethane	ND		2.0	
2-Butanone (MEK)	ND		10	
cis-1,2-Dichloroethene	ND		2.0	
Bromochloromethane	ND		2.0	
Chloroform	ND		2.0	
2,2-Dichloropropane	ND		2.0	
1,2-Dichloroethane	ND		2.0	
1,1,1-Trichloroethane	ND		2.0	
1,1-Dichloropropene	ND		2.0	
Carbon tetrachloride	ND		2.0	
Benzene	ND		2.0	
Dibromomethane	ND		2.0	
1,2-Dichloropropane	ND		2.0	

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Method: 8260 Prepared: 06/20/21 09:00

Units: ug/L Analyzed: 06/20/21 18:44

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Trichloroethene	ND		2.0	
Bromodichloromethane	ND		2.0	
cis-1,3-Dichloropropene	ND		2.0	
4-Methyl-2-pentanone (MIBK)	ND		10	
trans-1,3-Dichloropropene	ND		5.0	
1,1,2-Trichloroethane	ND		2.0	
Toluene	ND		2.0	
1,3-Dichloropropane	ND		2.0	
2-Hexanone (MBK)	ND		5.0	
Dibromochloromethane	ND		5.0	
1,2-Dibromoethane	ND		2.0	
Tetrachloroethene	ND		2.0	
1,1,1,2-Tetrachloroethane	ND		2.0	
Chlorobenzene	ND		2.0	
Ethylbenzene	ND		2.0	
Bromoform	ND		5.0	
Styrene	ND	J5	2.0	
1,1,2,2-Tetrachloroethane	ND		2.0	
Xylenes, total	ND		2.0	
1,2,3-Trichloropropane	ND		2.0	
Isopropylbenzene	ND		2.0	
Bromobenzene	ND		2.0	

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Name: **CHEMTOOL**

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Trip ID: Temperature C: 1.00

Client Sample ID: **C-4** Lab Sample ID: **21F0774-01**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 10:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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		5.0	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND		1.5	
2,4-Dichlorophenol	ND		1.5	
1,2,4-Trichlorobenzene	ND		1.5	

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Name:	CHEMTOOL	Date Received :	06/19/21
Project/Facility Number:	[none]	Visit Number:	
Funding Code:	WP02	Temperature C:	1.00
Trip ID:		Lab Sample ID:	21F0774-01
Client Sample ID:	C-4	Date/Time Collected:	06/19/21 12:54
Matrix:	Water	Collected By:	TAB
Sample Type:	Grab	Field pH:	

Semivolatiles by GC/MS

Method:	8270	Prepared:	06/20/21 11:33
Units:	ug/L	Analyzed:	06/22/21 10:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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		5.0	
Dimethylphthalate	ND		1.5	
1,3-Dinitrobenzene	ND		5.0	
2,6-Dinitrotoluene	ND		1.5	
Acenaphthylene	ND		1.5	
1,2-Dinitrobenzene	ND		1.5	
3-Nitroaniline	ND		1.5	

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Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **C-4** Lab Sample ID: **21F0774-01**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 10:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Acenaphthene	ND		1.5	
2,4-Dinitrophenol	ND	O2	5.0	
4-Nitrophenol	ND	O2	5.0	
Dibenzofuran	ND		1.5	
2,4-Dinitrotoluene	ND		5.0	
Pentachlorobenzene	ND		1.5	
1-Naphthylamine	ND		5.0	
2-Naphthylamine	ND		5.0	
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	O2	5.0	
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	O2	5.0	
Pronamide	ND		1.5	
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	

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Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 10:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Carbazole	ND		1.5	
4-Nitrobiphenyl	ND		5.0	
Di-n-butylphthalate	ND		1.5	
5-Nitroacenaphthene	ND		5.0	
Isodrin	ND		1.5	
Fluoranthene	ND		1.5	
Pyrene	ND		1.5	
p-Dimethylaminoazobenzene	ND		1.5	
Butyl benzyl phthalate	ND		5.0	
3,3-Dichlorobenzidine	ND		1.5	
Benzo(a)anthracene	ND		1.5	
Chrysene	ND		1.5	
Bis(2-ethylhexyl)phthalate	ND		5.0	
Mestranol	ND		5.0	
Di-n-octylphthalate	ND		5.0	
Benzo(b)fluoranthene	ND		1.5	
7,12-Dimethylbenzo(a)anthracene	ND		5.0	
Benzo(k)fluoranthene	ND		1.5	
Benzo(a)pyrene	ND		1.5	
Indeno(1,2,3-cd)pyrene	ND		5.0	
Dibenzo(a,h)anthracene	ND		5.0	
Benzo(ghi)perylene	ND		5.0	

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Trip ID: Temperature C: 1.00

Client Sample ID: **C-4** Lab Sample ID: **21F0774-01**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method: 5210B Prepared: 06/20/21 11:31

Units: mg/L Analyzed: 06/25/21 08:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	7.30		2.00	

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/21/21 11:57

Units: ug/L Analyzed: 06/23/21 12:18

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Molybdenum	ND		20.0	

Metals by EPA Method 200.7 - ICP/Hardness by Standard Method 2340B

Method: 200.7/2340B Prepared: 06/21/21 11:47

Units: ug/L Analyzed: 06/22/21 12:05

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		100	40000
Arsenic	ND		10.0	
Barium	46.6		5.00	
Beryllium	ND		1.00	
Boron	53.3		20.0	
Cadmium	ND		3.00	
Calcium	53400		300	100000

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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **C-4** Lab Sample ID: **21F0774-01**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Metals by EPA Method 200.7 - ICP/Hardness by Standard Method 2340B

Method: 200.7/2340B Prepared: 06/21/21 11:47

Units: ug/L Analyzed: 06/22/21 12:05

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	ND		200	40000
Lead	ND		5.00	
Magnesium	37400		300	100000
Manganese	107		15.0	
Nickel	ND		5.00	
Potassium	3570		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	39300		1000	
Strontium	87.4		10.0	
Vanadium	ND		5.00	
Zinc	ND		25.0	
Hardness	287000		1980	

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

Method: 353.2 Prepared: 06/21/21 10:48

Units: mg/L Analyzed: 06/21/21 14:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **C-4** Lab Sample ID: **21F0774-01**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

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

Method: 353.2 Prepared: 06/21/21 10:48

Units: mg/L Analyzed: 06/21/21 14:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NC)	2.64		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by Standard Method 4500 NH₃ D

Method: SM 4500 NH₃ D Prepared: 06/21/21 15:30

Units: mg/L Analyzed: 06/21/21 15:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	ND		0.10	

Nitrogen, Kjeldahl, Total, Colorimetric, Semi- by EPA Method 351.2

Method: 351.2 Prepared: 06/21/21 08:44

Units: mg/L Analyzed: 06/21/21 15:33

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	1.81		0.50	

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Project/Facility Number:	[none]	Visit Number:	
Funding Code:	WP02	Temperature C:	1.00
Trip ID:		Lab Sample ID:	21F0774-01
Client Sample ID:	C-4	Date/Time Collected:	06/19/21 12:54
Matrix:	Water	Collected By:	TAB
Sample Type:	Grab	Field pH:	

Phosphorus, All Forms, Colorimetric, Automated, by EPA Method 365.1

Method:	EPA 365.1	Prepared:	06/21/21 08:41
Units:	mg/L	Analyzed:	06/21/21 13:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.140		0.0050	

Total Suspended Solids by Standard Method 2540D

Method:	SM 2540D	Prepared:	06/22/21 08:40
Units:	mg/L	Analyzed:	06/22/21 08:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	32		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/20/21 09:00

Units: ug/L Analyzed: 06/20/21 19:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloromethane	ND		2.0	
Vinyl chloride	ND		2.0	
Bromomethane	ND		5.0	
Chloroethane	ND		2.0	
Trichlorofluoromethane	ND		2.0	
Acetone	180		10	
1,1-Dichloroethene	ND		2.0	
Methylene chloride	ND		5.0	
Carbon disulfide	25		2.0	
trans-1,2-Dichloroethene	ND		2.0	
Methyl tert-butyl ether	ND		2.0	
1,1-Dichloroethane	ND		2.0	
2-Butanone (MEK)	91		10	
cis-1,2-Dichloroethene	ND		2.0	
Bromochloromethane	ND		2.0	
Chloroform	ND		2.0	
2,2-Dichloropropane	ND		2.0	
1,2-Dichloroethane	ND		2.0	
1,1,1-Trichloroethane	ND		2.0	
1,1-Dichloropropene	ND		2.0	
Carbon tetrachloride	ND		2.0	
Benzene	2.8		2.0	
Dibromomethane	ND		2.0	
1,2-Dichloropropane	ND		2.0	

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Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/20/21 09:00

Units: ug/L Analyzed: 06/20/21 19:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Trichloroethene	ND		2.0	
Bromodichloromethane	ND		2.0	
cis-1,3-Dichloropropene	ND		2.0	
4-Methyl-2-pentanone (MIBK)	23		10	
trans-1,3-Dichloropropene	ND		5.0	
1,1,2-Trichloroethane	ND		2.0	
Toluene	ND		2.0	
1,3-Dichloropropane	ND		2.0	
2-Hexanone (MBK)	14		5.0	
Dibromochloromethane	ND		5.0	
1,2-Dibromoethane	ND		2.0	
Tetrachloroethene	ND		2.0	
1,1,1,2-Tetrachloroethane	ND		2.0	
Chlorobenzene	ND		2.0	
Ethylbenzene	ND		2.0	
Bromoform	ND		5.0	
Styrene	ND	J5	2.0	
1,1,2,2-Tetrachloroethane	ND		2.0	
Xylenes, total	ND		2.0	
1,2,3-Trichloropropane	ND		2.0	
Isopropylbenzene	16		2.0	
Bromobenzene	ND		2.0	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 11:00

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Pyridine	ND		38	
2-Picoline	ND		38	
Methyl methanesulfonate	ND		38	
Ethyl methanesulfonate	ND		38	
Phenol	160		38	
Bis(2-chloroethyl)ether	ND		38	
2-Chlorophenol	ND		38	
1,3-Dichlorobenzene	ND		38	
1,4-Dichlorobenzene	ND		38	
1,2-Dichlorobenzene	ND		38	
2-Methylphenol	ND		38	
2,2-Oxybis(1-chloropropane)	ND		38	
Acetophenone	91		38	
4-Methylphenol	ND		38	
N-Nitrosodi-n-propylamine	ND		38	
Hexachloroethane	ND		38	
Nitrobenzene	ND		38	
N-Nitrosopiperidine	ND		38	
Isophorone	ND		38	
2-Nitrophenol	ND		120	
2,4-Dimethylphenol	ND		38	
Bis(2-chloroethoxy)methane	ND		38	
2,4-Dichlorophenol	ND		38	
1,2,4-Trichlorobenzene	ND		38	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 11:00

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Naphthalene	ND		38	
4-Chloroaniline	ND		38	
2,6-Dichlorophenol	ND		38	
Hexachloropropene	ND		38	
Hexachlorobutadiene	ND		38	
N-Nitrosodi-n-butylamine	ND		38	
4-Chloro-3-methylphenol	ND		38	
Isosafrole	ND		38	
2-Methylnaphthalene	ND		38	
1,2,4,5-Tetrachlorobenzene	ND		38	
Hexachlorocyclopentadiene	ND		38	
2,4,6-Trichlorophenol	ND		38	
2,4,5-Trichlorophenol	ND		38	
Safrole	ND		38	
2-Chloronaphthalene	ND		38	
1-Chloronaphthalene	ND		38	
2-Nitroaniline	ND		38	
1,4-Dinitrobenzene	ND		120	
Dimethylphthalate	ND		38	
1,3-Dinitrobenzene	ND		120	
2,6-Dinitrotoluene	ND		38	
Acenaphthylene	ND		38	
1,2-Dinitrobenzene	ND		38	
3-Nitroaniline	ND		38	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 11:00

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Acenaphthene	ND		38	
2,4-Dinitrophenol	ND	O2	120	
4-Nitrophenol	ND	O2	120	
Dibenzofuran	ND		38	
2,4-Dinitrotoluene	ND		120	
Pentachlorobenzene	ND		38	
1-Naphthylamine	ND		120	
2-Naphthylamine	ND		120	
2,3,4,6-Tetrachlorophenol	ND		38	
Diethylphthalate	ND		38	
4-Chlorophenyl phenyl ether	ND		38	
Fluorene	ND		38	
4-Nitroaniline	ND		38	
4,6-Dinitro-2-methylphenol	ND	O2	120	
Diphenylamine	ND		38	
Azobenzene	ND		38	
Phenacetin	ND		38	
4-Bromophenyl phenyl ether	ND		38	
Hexachlorobenzene	ND		38	
Pentachlorophenol	ND	O2	120	
Pronamide	ND		38	
Pentachloronitrobenzene	ND		38	
Phenanthrene	ND		38	
Anthracene	ND		38	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/20/21 11:33

Units: ug/L Analyzed: 06/22/21 11:00

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Carbazole	ND		38	
4-Nitrobiphenyl	ND		120	
Di-n-butylphthalate	ND		38	
5-Nitroacenaphthene	ND		120	
Isodrin	ND		38	
Fluoranthene	ND		38	
Pyrene	ND		38	
p-Dimethylaminoazobenzene	ND		38	
Butyl benzyl phthalate	ND		120	
3,3-Dichlorobenzidine	ND		38	
Benzo(a)anthracene	ND		38	
Chrysene	ND		38	
Bis(2-ethylhexyl)phthalate	ND		120	
Mestranol	ND		120	
Di-n-octylphthalate	ND		120	
Benzo(b)fluoranthene	ND		38	
7,12-Dimethylbenzo(a)anthracene	ND		120	
Benzo(k)fluoranthene	ND		38	
Benzo(a)pyrene	ND		38	
Indeno(1,2,3-cd)pyrene	ND		120	
Dibenzo(a,h)anthracene	ND		120	
Benzo(ghi)perylene	ND		120	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method: 5210B Prepared: 06/20/21 11:31

Units: mg/L Analyzed: 06/25/21 08:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	749	I	2.00	

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/21/21 11:57

Units: ug/L Analyzed: 06/23/21 12:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Molybdenum	2710		20.0	

Metals by EPA Method 200.7 - ICP/Hardness by Standard Method 2340B

Method: 200.7/2340B Prepared: 06/21/21 11:47

Units: ug/L Analyzed: 06/22/21 12:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		1000	40000
Arsenic	ND		100	
Barium	287		50.0	
Beryllium	ND		10.0	
Boron	2700		200	
Cadmium	ND		30.0	
Calcium	201000		3000	100000

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Metals by EPA Method 200.7 - ICP/Hardness by Standard Method 2340B

Method: 200.7/2340B Prepared: 06/21/21 11:47

Units: ug/L Analyzed: 06/22/21 12:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chromium	ND		50.0	
Cobalt	ND		100	
Copper	ND		100	
Iron	ND		2000	40000
Lead	ND		50.0	
Magnesium	45400		3000	100000
Manganese	1280		150	
Nickel	ND		50.0	
Potassium	96600		14000	100000
Selenium	ND		200	
Silver	ND		30.0	
Sodium	166000		10000	
Strontium	1140		100	
Vanadium	ND		50.0	
Zinc	ND		250	
Hardness	689000		19800	

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

Method: 353.2 Prepared: 06/21/21 10:48

Units: mg/L Analyzed: 06/21/21 14:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

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

Method: 353.2 Prepared: 06/21/21 10:48

Units: mg/L Analyzed: 06/21/21 14:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NC)	0.953		0.100	

Nitrogen, Ammonia, Potentiometric, Ion Selective by Standard Method 4500 NH₃ D

Method: SM 4500 NH₃ D Prepared: 06/21/21 15:30

Units: mg/L Analyzed: 06/21/21 15:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	184		0.10	

Nitrogen, Kjeldahl, Total, Colorimetric, Semi- by EPA Method 351.2

Method: 351.2 Prepared: 06/21/21 08:44

Units: mg/L Analyzed: 06/21/21 16:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	221		0.50	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **B-3** Lab Sample ID: **21F0774-03**

Matrix: Water Date/Time Collected: 06/19/21 12:54

Sample Type: Grab Field pH: Collected By: TAB

Oil & Grease by USEPA Method 1664B

Method: 1664B Prepared: 06/23/21 13:34

Units: mg/L Analyzed: 06/23/21 13:34

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Oil & Grease	281		5	

Phosphorus, All Forms, Colorimetric, Automated, by EPA Method 365.1

Method: EPA 365.1 Prepared: 06/21/21 08:41

Units: mg/L Analyzed: 06/21/21 13:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.458		0.0050	

Total Suspended Solids by Standard Method 2540D

Method: SM 2540D Prepared: 06/22/21 08:40

Units: mg/L Analyzed: 06/22/21 08:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	66		4	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **TRIP BLANK** Lab Sample ID: **21F0774-04**

Matrix: Water Date/Time Collected: 06/19/21 0:00

Sample Type: Field pH: Collected By:

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/20/21 09:00

Units: ug/L Analyzed: 06/20/21 16:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloromethane	ND		2.0	
Vinyl chloride	ND		2.0	
Bromomethane	ND		5.0	
Chloroethane	ND		2.0	
Trichlorofluoromethane	ND		2.0	
Acetone	ND		10	
1,1-Dichloroethene	ND		2.0	
Methylene chloride	ND		5.0	
Carbon disulfide	ND		2.0	
trans-1,2-Dichloroethene	ND		2.0	
Methyl tert-butyl ether	ND		2.0	
1,1-Dichloroethane	ND		2.0	
2-Butanone (MEK)	ND		10	
cis-1,2-Dichloroethene	ND		2.0	
Bromochloromethane	ND		2.0	
Chloroform	17		2.0	
2,2-Dichloropropane	ND		2.0	
1,2-Dichloroethane	ND		2.0	
1,1,1-Trichloroethane	ND		2.0	
1,1-Dichloropropene	ND		2.0	
Carbon tetrachloride	ND		2.0	
Benzene	ND		2.0	
Dibromomethane	ND		2.0	
1,2-Dichloropropane	ND		2.0	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/19/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 1.00

Client Sample ID: **TRIP BLANK** Lab Sample ID: **21F0774-04**

Matrix: Water Date/Time Collected: 06/19/21 0:00

Sample Type: Field pH: Collected By:

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/20/21 09:00

Units: ug/L Analyzed: 06/20/21 16:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Trichloroethene	ND		2.0	
Bromodichloromethane	9.6		2.0	
cis-1,3-Dichloropropene	ND		2.0	
4-Methyl-2-pentanone (MIBK)	ND		10	
trans-1,3-Dichloropropene	ND		5.0	
1,1,2-Trichloroethane	ND		2.0	
Toluene	ND		2.0	
1,3-Dichloropropane	ND		2.0	
2-Hexanone (MBK)	ND		5.0	
Dibromochloromethane	ND		5.0	
1,2-Dibromoethane	ND		2.0	
Tetrachloroethene	ND		2.0	
1,1,1,2-Tetrachloroethane	ND		2.0	
Chlorobenzene	ND		2.0	
Ethylbenzene	ND		2.0	
Bromoform	ND		5.0	
Styrene	ND	J5	2.0	
1,1,2,2-Tetrachloroethane	ND		2.0	
Xylenes, total	ND		2.0	
1,2,3-Trichloropropane	ND		2.0	
Isopropylbenzene	ND		2.0	
Bromobenzene	ND		2.0	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name:	CHEMTOOL	Date Received :	06/19/21
Project/Facility Number:	[none]	Visit Number:	
Funding Code:	WP02	Temperature C:	1.00
Trip ID:			

Notes and Definitions

- O2 Quality control sample failed low - possible low bias or false non-detect result.
- J5 Blank spike failed high, result was less than the reporting limit - impact on data may be minimal.
- I See Case Narrative for more information.
- ND Analyte NOT DETECTED at or above the reporting limit
- * Non-NELAP accredited

21F0774-03: The Oil & Grease collection bottle was inadvertently used to prepare an extract for Method 8270. Due to this, the 8270 collection bottle was preserved in-house and used for Oil & Grease analysis.

Method 8270: Tentatively Identified Compounds (TICs) were detected in the semi-volatile analysis of samples 21F0774-03. Please contact the laboratory if additional information about the TICs is needed.

21F0774-03 BOD: Method QC requirements not met.

21F0774-02: Oil & Grease was subcontracted to PDC. The PDC report is included.

Report Authorized by:

Tom Weiss
Laboratory Manager

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June 30, 2021

Tom Weiss
Illinois Environmental Protection Agency
825 N Rutledge
Springfield, Il 62702

Dear Tom Weiss:

Please find enclosed the analytical results for the **1** sample(s) the laboratory received on **6/24/21 3:02 pm** and logged in under work order **EF05014**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Jennifer L Solomon
Client Services Manager
1-309-683-1721
jsolomon@pdclab.com





SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order EF05014

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
NO	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: EF05014-01
Name: Station B-2
Alias: CHEMTOOL

Sampled: 06/19/21 13:25
Received: 06/24/21 15:02
Matrix: Sludge - Regular Sample
PO #: DWA-18011

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Oil & Grease - total	180000	mg/kg dry		06/29/21 08:11	1	3400	06/29/21 12:21	DLE	EPA 9071
Solids - total solids (TS)	59	%		06/25/21 13:56	1	0.050	06/25/21 14:37	BMA	SM 2540G*



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B134823 - No Prep - SM 2540G</u>									
Blank (B134823-BLK1)	Prepared & Analyzed: 06/25/21								
Solids - total solids (TS)	< 0.050	%							
Duplicate (B134823-DUP1)	Sample: EF05056-02 Prepared & Analyzed: 06/25/21								
Solids - total solids (TS)	10.2	%			10.2			0.2	5
Duplicate (B134823-DUP2)	Sample: EF05056-03 Prepared & Analyzed: 06/25/21								
Solids - total solids (TS)	11.2	%			11.0			2	5
<u>Batch B135033 - No Prep - EPA 9071</u>									
Blank (B135033-BLK1)	Prepared & Analyzed: 06/29/21								
Oil & Grease - total	< 200	mg/kg wet							
LCS (B135033-BS1)	Prepared & Analyzed: 06/29/21								
Oil & Grease - total	1970	mg/kg wet		2000		98	78-114		
Matrix Spike (B135033-MS1)	Sample: EF04643-01 Prepared & Analyzed: 06/29/21								
Oil & Grease - total	115000	mg/kg dry		84580	29800	101	78-114		
Matrix Spike Dup (B135033-MSD1)	Sample: EF04643-01 Prepared & Analyzed: 06/29/21								
Oil & Grease - total	118000	mg/kg dry		84580	29800	104	78-114	2	18



NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Jennifer L. Solomon, Client Services Manager

09-Funding Code: W P 0 2 10-Agency Routing CO 12-File Code: EMER 13-Sample Type: X
 15-Reporting: B 16-DID: Basin _____ County _____ Plant _____ 17-Sampling Program: ER
 18-Facility/Sample Pt: CHEM TOOL
STATION B-2 19-Begin 210619 20-Begin 1325

23-Instructions to Lab: _____

Date: Y Y M M D D H H M M
 (24-hour clock)

21-Collected by: TAB 22-Transported by: PWS

27-Received by: _____ Date: 210624
Supplmt Dept 10:55A Y Y M M D D

Received by: DCW Date: 210624
 Y Y M M D D

Circle One: Effluent Stream _____
 Influent Process Flows _____
 Sludge Cooling Water _____
 Specials: _____
 WWT Other

Program: EMERGENCY RESPONSE

NPDES No. _____

Receiving Stream Name: _____

Receiving Stream Conditions (velocity, etc): _____

Effluent Conditions: _____

21F0774-02



Weather Conditions: _____

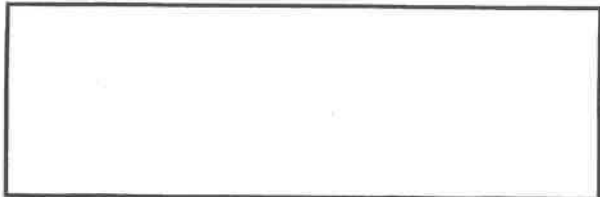
Comments & Unusual Conditions & Severity: (If applicable, Stamp- No Visible Problem This Visit")

Remarks: FOLLOW UP SAMPLE FOR FATS, OILS, GREASE OF "DAY 0" FIRE CONTROL RUNOFF

Sampling Techniques:

GRAB-LIQUID

Mail To:



FOR LABORATORY USE ONLY

LAB ID NO. _____

Sample Received By: KFW

Date Received: 6/24/21

Time Received: _____ AM 1502 PM

Lab Section: _____

Supervisor: _____

3.1°C on Ice.



REGULATORY PROGRAM (Check one):
 NPDES
 MORBCA
 RCRA
 CCDD
 TACO: RES OR IND/COMM

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT Illinois EPA ADDRESS 825 N Rutledge Springfield, IL 62702 CONTACT PERSON Tom Weiss		PROJECT LOCATION E-MAIL tom.weiss@illinois.gov		PURCHASE ORDER # DATE SHIPPED		3 ANALYSIS REQUESTED + O&G Soxhlet		4 (FOR LAB USE ONLY) LOGIN # <u>CF05014-01</u> LOGGED BY: CLIENT: PROJECT: IEPA O&G Analysis PROJ. MGR.: Jennifer Solomon CUSTODY SEAL #:		
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT) Station B-2		DATE COLLECTED 04/19/21	TIME COLLECTED 1325	SAMPLE TYPE GRAB X	MATRIX TYPE	BOTTLE COUNT	PRES CODE CURB PROVIDED	REMARKS		
MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER SW-SURFACE WATER WWSL-SLUDGE MAS-NON AQUEOUS SOLID LCH-LEACHATE SL-SLIM SOL-SOLID		DATE COLLECTED 04/19/21		TIME COLLECTED 1325	SAMPLE TYPE GRAB X	MATRIX TYPE	BOTTLE COUNT	PRES CODE CURB PROVIDED	REMARKS	
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER		DATE RECEIVED BY: (SIGNATURE) DATE TIME 04/24/21 10:55		RECEIVED BY: (SIGNATURE) DATE TIME 04/25/21 1752		RECEIVED BY: (SIGNATURE) DATE TIME 04/25/21 1420		8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT 3.1 °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED DATE AND TIME TAKEN FROM SAMPLE BOTTLE		
5 TURNAROUND TIME REQUESTED (PLEASE CHECK) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL <input type="checkbox"/> PHONE <input type="checkbox"/> EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		6 DATE RESULTS NEEDED		7 RELINQUISHED BY: (SIGNATURE) DATE TIME 04/24/21 3:02		RECEIVED BY: (SIGNATURE) DATE TIME 04/25/21 11:59		COMMENTS: (FOR LAB USE ONLY)		