



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **001** Lab Sample ID: **21F0653-01**

Matrix: Water Date/Time Collected: 06/16/21 13:34

Sample Type: Grab Field pH: 8.1 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 21:43

<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	J3	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	J3	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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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		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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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **001** Lab Sample ID: **21F0653-01**

Matrix: Water Date/Time Collected: 06/16/21 13:34

Sample Type: Grab Field pH: 8.1 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:05

<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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Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:05

<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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Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:05

<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		5.0	
4-Nitrophenol	ND		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		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		5.0	
Pronamide	ND		1.5	
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	

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Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:05

<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: 8.00

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Matrix: Water Date/Time Collected: 06/16/21 13:34

Sample Type: Grab Field pH: 8.1 Collected By: TAB

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

Method: 5210B Prepared: 06/17/21 11:03

Units: mg/L Analyzed: 06/22/21 09:13

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	329	L, V	2.00	

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 13:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	104		100	
Antimony	22.3		2.00	
Arsenic	ND		1.00	
Barium	50.3		5.00	
Beryllium	ND		1.00	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		100	
Lead	ND		5.00	
Manganese	40.1		15.0	
Molybdenum	584		20.0	
Nickel	ND		25.0	
Selenium	ND		2.00	
Silver	ND		10.0	

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Trip ID: Temperature C: 8.00

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Matrix: Water Date/Time Collected: 06/16/21 13:34

Sample Type: Grab Field pH: 8.1 Collected By: TAB

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 13:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Thallium	ND		2.00	
Vanadium	ND		5.00	
Zinc	ND		100	

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/17/21 23:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	111		100	40000
Arsenic	ND		10.0	
Barium	51.5		5.00	
Beryllium	ND		1.00	
Boron	620		20.0	
Cadmium	ND		3.00	
Calcium	79200		300	100000
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	36.6		10.0	
Iron	ND		200	40000
Lead	ND		5.00	
Magnesium	35000		300	100000

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Client Sample ID: **001** Lab Sample ID: **21F0653-01**

Matrix: Water Date/Time Collected: 06/16/21 13:34

Sample Type: Grab Field pH: 8.1 Collected By: TAB

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/17/21 23:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Manganese	41.4		15.0	
Nickel	ND		5.00	
Potassium	22900		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	292000		10000	
Strontium	113		10.0	
Vanadium	ND		5.00	
Zinc	109		25.0	
Hardness	342000		1980	

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

Method: 353.2 Prepared: 06/17/21 10:25

Units: mg/L Analyzed: 06/17/21 12:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO2) + Nitrate (NC)	6.28		0.100	

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Client Sample ID: **001** Lab Sample ID: **21F0653-01**

Matrix: Water Date/Time Collected: 06/16/21 13:34

Sample Type: Grab Field pH: 8.1 Collected By: TAB

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

Method: SM 4500 NH3 D Prepared: 06/18/21 13:28

Units: mg/L Analyzed: 06/18/21 13:28

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	7.23		0.10	

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

Method: 351.2 Prepared: 06/18/21 09:41

Units: mg/L Analyzed: 06/18/21 18:48

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	7.55		0.50	

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

Method: EPA 365.1 Prepared: 06/18/21 08:55

Units: mg/L Analyzed: 06/18/21 16:37

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	4.16		0.0050	

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Trip ID:		Lab Sample ID:	21F0653-01
Client Sample ID:	001	Date/Time Collected:	06/16/21 13:34
Matrix:	Water	Collected By:	TAB
Sample Type:	Grab	Field pH:	8.1

Total Suspended Solids by Standard Method 2540D

Method:	SM 2540D	Prepared:	06/17/21 10:55
Units:	mg/L	Analyzed:	06/17/21 10:55

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	68		4	

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Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 22:04

<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	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	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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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 22:04

<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)	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		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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:39

<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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:39

<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	J3	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	J3	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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:39

<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		5.0	
4-Nitrophenol	ND		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	J3	1.5	
4-Chlorophenyl phenyl ether	ND		1.5	
Fluorene	ND		1.5	
4-Nitroaniline	ND		1.5	
4,6-Dinitro-2-methylphenol	ND		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		5.0	
Pronamide	ND		1.5	
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 10:39

<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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

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

Method: 5210B Prepared: 06/17/21 11:03

Units: mg/L Analyzed: 06/22/21 09:13

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	8.40	V	2.00	

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 14:23

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		100	
Antimony	ND		2.00	
Arsenic	1.68		1.00	
Barium	50.6		5.00	
Beryllium	ND		1.00	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		100	
Lead	ND		5.00	
Manganese	123		15.0	
Molybdenum	ND		20.0	
Nickel	ND		25.0	
Selenium	ND		2.00	
Silver	ND		10.0	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 14:23

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Thallium	ND		2.00	
Vanadium	ND		5.00	
Zinc	ND		100	

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/17/21 23:47

<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	52.4		5.00	
Beryllium	ND		1.00	
Boron	37.5		20.0	
Cadmium	ND		3.00	
Calcium	58400		300	100000
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	211		200	40000
Lead	ND		5.00	
Magnesium	39200		300	100000

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/17/21 23:47

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Manganese	133		15.0	
Nickel	ND		5.00	
Potassium	3870		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	39900		1000	
Strontium	98.7		10.0	
Vanadium	ND		5.00	
Zinc	ND		25.0	
Hardness	307000		1980	

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

Method: 353.2 Prepared: 06/17/21 10:25

Units: mg/L Analyzed: 06/17/21 12:53

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO₂) + Nitrate (NC)	2.13		0.100	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-4** Lab Sample ID: **21F0653-02**

Matrix: Water Date/Time Collected: 06/16/21 13:10

Sample Type: Grab Field pH: 8.5 Collected By: TAB

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

Method: SM 4500 NH3 D Prepared: 06/18/21 13:28

Units: mg/L Analyzed: 06/18/21 13:28

<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: 06/18/21 09:41

Units: mg/L Analyzed: 06/18/21 18:21

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	1.63		0.50	

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

Method: EPA 365.1 Prepared: 06/18/21 08:55

Units: mg/L Analyzed: 06/18/21 16:08

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.166		0.0050	

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LABORATORY RESULTS

Name:	CHEMTOOL	Date Received :	06/17/21
Project/Facility Number:	[none]	Visit Number:	
Funding Code:	WP02	Temperature C:	8.00
Trip ID:		Lab Sample ID:	21F0653-02
Client Sample ID:	C-4	Date/Time Collected:	06/16/21 13:10
Matrix:	Water	Collected By:	TAB
Sample Type:	Grab	Field pH:	8.5

Total Suspended Solids by Standard Method 2540D

Method:	SM 2540D	Prepared:	06/17/21 10:55
Units:	mg/L	Analyzed:	06/17/21 10:55

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	35		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 22:24

<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	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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 22:24

<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		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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 11:14

<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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 11:14

<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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 11:14

<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		5.0	
4-Nitrophenol	ND		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		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		5.0	
Pronamide	ND		1.5	
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 11:14

<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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

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

Method: 5210B Prepared: 06/17/21 11:03

Units: mg/L Analyzed: 06/22/21 09:13

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	9.50	V	2.00	

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 14:28

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		100	
Antimony	ND		2.00	
Arsenic	1.74		1.00	
Barium	49.9		5.00	
Beryllium	ND		1.00	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		100	
Lead	ND		5.00	
Manganese	128		15.0	
Molybdenum	ND		20.0	
Nickel	ND		25.0	
Selenium	ND		2.00	
Silver	ND		10.0	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 14:28

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Thallium	ND		2.00	
Vanadium	ND		5.00	
Zinc	ND		100	

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/17/21 23:54

<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	51.4		5.00	
Beryllium	ND		1.00	
Boron	33.8		20.0	
Cadmium	ND		3.00	
Calcium	58000		300	100000
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	286		200	40000
Lead	ND		5.00	
Magnesium	40100		300	100000

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/17/21 23:54

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Manganese	137		15.0	
Nickel	ND		5.00	
Potassium	3870		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	38500		1000	
Strontium	99.5		10.0	
Vanadium	ND		5.00	
Zinc	ND		25.0	
Hardness	310000		1980	

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

Method: 353.2 Prepared: 06/17/21 10:25

Units: mg/L Analyzed: 06/17/21 12:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO2) + Nitrate (NC)	1.98		0.100	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

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

Method: SM 4500 NH3 D Prepared: 06/18/21 13:28

Units: mg/L Analyzed: 06/18/21 13:28

<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: 06/18/21 09:41

Units: mg/L Analyzed: 06/18/21 18:22

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	1.90		0.50	

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

Method: EPA 365.1 Prepared: 06/18/21 08:55

Units: mg/L Analyzed: 06/18/21 16:09

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.179		0.0050	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **C-5** Lab Sample ID: **21F0653-03**

Matrix: Water Date/Time Collected: 06/16/21 14:36

Sample Type: Grab Field pH: 8.8 Collected By: TAB

Total Suspended Solids by Standard Method 2540D

Method: SM 2540D Prepared: 06/17/21 10:55

Units: mg/L Analyzed: 06/17/21 10:55

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	49		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/18/21 01:15

<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	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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LABORATORY RESULTS

Name:	CHEMTOOL	Date Received :	06/17/21
Project/Facility Number:	[none]	Visit Number:	
Funding Code:	WP02	Temperature C:	8.00
Trip ID:		Lab Sample ID:	21F0653-04
Client Sample ID:	B-1	Date/Time Collected:	06/16/21 18:33
Matrix:	Water	Collected By:	TAB
Sample Type:	Grab	Field pH:	

Volatiles Organic Compounds by Purge and Trap GC/MS

Method:	8260	Prepared:	06/17/21 08:00
Units:	ug/L	Analyzed:	06/18/21 01:15

<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	3.3		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	3.2		2.0	
Bromoform	ND		5.0	
Styrene	2.7		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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 12:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Pyridine	ND		60	
2-Picoline	ND		60	
Methyl methanesulfonate	ND		60	
Ethyl methanesulfonate	ND		60	
Phenol	160		60	
Bis(2-chloroethyl)ether	ND		60	
2-Chlorophenol	ND		60	
1,3-Dichlorobenzene	ND		60	
1,4-Dichlorobenzene	ND		60	
1,2-Dichlorobenzene	ND		60	
2-Methylphenol	ND		60	
2,2-Oxybis(1-chloropropane)	ND		60	
Acetophenone	ND		60	
4-Methylphenol	ND		60	
N-Nitrosodi-n-propylamine	ND		60	
Hexachloroethane	ND		60	
Nitrobenzene	ND		60	
N-Nitrosopiperidine	ND		60	
Isophorone	ND		60	
2-Nitrophenol	ND		200	
2,4-Dimethylphenol	ND		60	
Bis(2-chloroethoxy)methane	ND		60	
2,4-Dichlorophenol	ND		60	
1,2,4-Trichlorobenzene	ND		60	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 12:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Naphthalene	ND		60	
4-Chloroaniline	ND		60	
2,6-Dichlorophenol	ND		60	
Hexachloropropene	ND		60	
Hexachlorobutadiene	ND		60	
N-Nitrosodi-n-butylamine	ND		60	
4-Chloro-3-methylphenol	ND		60	
Isosafrole	ND		60	
2-Methylnaphthalene	ND		60	
1,2,4,5-Tetrachlorobenzene	ND		60	
Hexachlorocyclopentadiene	ND		60	
2,4,6-Trichlorophenol	ND		60	
2,4,5-Trichlorophenol	ND		60	
Safrole	ND		60	
2-Chloronaphthalene	ND		60	
1-Chloronaphthalene	ND		60	
2-Nitroaniline	ND		60	
1,4-Dinitrobenzene	ND		200	
Dimethylphthalate	ND		60	
1,3-Dinitrobenzene	ND		200	
2,6-Dinitrotoluene	ND		60	
Acenaphthylene	ND		60	
1,2-Dinitrobenzene	ND		60	
3-Nitroaniline	ND		60	

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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 : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 12:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Acenaphthene	ND		60	
2,4-Dinitrophenol	ND		200	
4-Nitrophenol	ND		200	
Dibenzofuran	ND		60	
2,4-Dinitrotoluene	ND		200	
Pentachlorobenzene	ND		60	
1-Naphthylamine	ND		200	
2-Naphthylamine	ND		200	
2,3,4,6-Tetrachlorophenol	ND		60	
Diethylphthalate	ND		60	
4-Chlorophenyl phenyl ether	ND		60	
Fluorene	ND		60	
4-Nitroaniline	ND		60	
4,6-Dinitro-2-methylphenol	ND		200	
Diphenylamine	ND		60	
Azobenzene	ND		60	
Phenacetin	ND		60	
4-Bromophenyl phenyl ether	ND		60	
Hexachlorobenzene	ND		60	
Pentachlorophenol	ND		200	
Pronamide	ND		60	
Pentachloronitrobenzene	ND		60	
Phenanthrene	ND		60	
Anthracene	ND		60	

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Illinois Environmental Protection Agency Laboratory

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

Semivolatiles by GC/MS

Method: 8270 Prepared: 06/17/21 12:02

Units: ug/L Analyzed: 06/18/21 12:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Carbazole	ND		60	
4-Nitrobiphenyl	ND		200	
Di-n-butylphthalate	ND		60	
5-Nitroacenaphthene	ND		200	
Isodrin	ND		60	
Fluoranthene	ND		60	
Pyrene	ND		60	
p-Dimethylaminoazobenzene	ND		60	
Butyl benzyl phthalate	ND		200	
3,3-Dichlorobenzidine	ND		60	
Benzo(a)anthracene	ND		60	
Chrysene	ND		60	
Bis(2-ethylhexyl)phthalate	ND		200	
Mestranol	ND		200	
Di-n-octylphthalate	ND		200	
Benzo(b)fluoranthene	ND		60	
7,12-Dimethylbenzo(a)anthracene	ND		200	
Benzo(k)fluoranthene	ND		60	
Benzo(a)pyrene	ND		60	
Indeno(1,2,3-cd)pyrene	ND		200	
Dibenzo(a,h)anthracene	ND		200	
Benzo(ghi)perylene	ND		200	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

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

Method: 5210B Prepared: 06/17/21 11:03

Units: mg/L Analyzed: 06/22/21 09:13

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	17.8	V	2.00	

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 14:32

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	238		100	
Antimony	337		2.00	
Arsenic	2.66		1.00	
Barium	91.3		5.00	
Beryllium	ND		1.00	
Cadmium	16.2		3.00	
Chromium	10.1		5.00	
Cobalt	ND		10.0	
Copper	ND		100	
Lead	ND		5.00	
Manganese	ND		15.0	
Molybdenum	18500		20.0	
Nickel	ND		25.0	
Selenium	10.0		2.00	
Silver	ND		10.0	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

Metals by EPA 200 Series Methods ICP/MS

Method: 200.8 Prepared: 06/17/21 10:48

Units: ug/L Analyzed: 06/22/21 14:32

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Thallium	ND		2.00	
Vanadium	8.10		5.00	
Zinc	ND		100	

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

Method: 200.7/2340B Prepared: 06/17/21 12:31

Units: ug/L Analyzed: 06/18/21 00:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	550		100	40000
Arsenic	ND		10.0	
Barium	94.0		5.00	
Beryllium	ND		1.00	
Boron	7030		200	
Cadmium	ND		3.00	
Calcium	142000		300	100000
Chromium	23.8		5.00	
Cobalt	ND		10.0	
Copper	15.7		10.0	
Iron	478		200	40000
Lead	ND		5.00	
Magnesium	7130		300	100000

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

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: 06/17/21 12:31

Units: ug/L Analyzed: 06/18/21 00:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Manganese	ND		15.0	
Nickel	ND		5.00	
Potassium	187000		1400	100000
Selenium	ND		20.0	
Silver	5.17		3.00	
Sodium	158000		1000	
Strontium	1480		10.0	
Vanadium	ND		5.00	
Zinc	110		25.0	
Hardness	385000		1980	

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

Method: 353.2 Prepared: 06/17/21 10:25

Units: mg/L Analyzed: 06/17/21 13:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO₂) + Nitrate (NC)	2.69		0.100	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **B-1** Lab Sample ID: **21F0653-04**

Matrix: Water Date/Time Collected: 06/16/21 18:33

Sample Type: Grab Field pH: Collected By: TAB

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

Method: SM 4500 NH3 D Prepared: 06/18/21 13:28

Units: mg/L Analyzed: 06/18/21 13:28

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	1.93		0.10	

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

Method: 351.2 Prepared: 06/18/21 09:41

Units: mg/L Analyzed: 06/18/21 19:08

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	27.6		0.50	

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

Method: EPA 365.1 Prepared: 06/18/21 08:55

Units: mg/L Analyzed: 06/18/21 16:10

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	1.62		0.0050	

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LABORATORY RESULTS

Name:	CHEMTOOL	Date Received :	06/17/21
Project/Facility Number:	[none]	Visit Number:	
Funding Code:	WP02	Temperature C:	8.00
Trip ID:		Lab Sample ID:	21F0653-04
Client Sample ID:	B-1	Date/Time Collected:	06/16/21 18:33
Matrix:	Water	Collected By:	TAB
Sample Type:	Grab	Field pH:	

Total Suspended Solids by Standard Method 2540D

Method:	SM 2540D	Prepared:	06/17/21 10:55
Units:	mg/L	Analyzed:	06/17/21 10:55

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	22		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **TRIP BLANK** Lab Sample ID: **21F0653-05**

Matrix: Water Date/Time Collected: 06/16/21 0:00

Sample Type: Field pH: Collected By:

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 16:55

<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	9.4		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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Client Sample ID: **TRIP BLANK** Lab Sample ID: **21F0653-05**

Matrix: Water Date/Time Collected: 06/16/21 0:00

Sample Type: Field pH: Collected By:

Volatiles Organic Compounds by Purge and Trap GC/MS

Method: 8260 Prepared: 06/17/21 08:00

Units: ug/L Analyzed: 06/17/21 16:55

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Trichloroethene	ND		2.0	
Bromodichloromethane	9.7		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	6.1		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		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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/17/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 8.00

Notes and Definitions

- V Indicates the analyte was detected in both the sample and the associated method blank and was outside method blank acceptance criteria.
- L Actual value not known, but known to be greater than value shown. Value shown is the highest acceptable level for quantitation. (For bacteria, result calculated as if the smallest filtration volume had a count of 200).
- 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 sample 21F0653-04. Please contact the laboratory if additional information about the TICs is needed.

Report Authorized by:

Tom Weiss
Laboratory Manager

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