



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

Matrix: Water Date/Time Collected: 06/18/21 13:29

Sample Type: Grab Field pH: 8.6 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 17:21

<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	J3	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	J3	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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Name: **CHEMTOOL**

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Units: ug/L Analyzed: 06/20/21 17:21

<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**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

Matrix: Water Date/Time Collected: 06/18/21 13:29

Sample Type: Grab Field pH: 8.6 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 16:48

<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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Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

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Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 16:48

<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	J1	1.5	
Hexachlorocyclopentadiene	ND	J1	1.5	
2,4,6-Trichlorophenol	ND	J1	1.5	
2,4,5-Trichlorophenol	ND	J1	1.5	
Safrole	ND	J1	1.5	
2-Chloronaphthalene	ND	J1	1.5	
1-Chloronaphthalene	ND	J1	1.5	
2-Nitroaniline	ND	J1	1.5	
1,4-Dinitrobenzene	ND	J1	5.0	
Dimethylphthalate	ND	J1	1.5	
1,3-Dinitrobenzene	ND	J1	5.0	
2,6-Dinitrotoluene	ND	J1	1.5	
Acenaphthylene	ND	J1	1.5	
1,2-Dinitrobenzene	ND	J1	1.5	
3-Nitroaniline	ND	J1	1.5	

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Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 16:48

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Acenaphthene	ND	J1	1.5	
2,4-Dinitrophenol	ND	J1, O2	5.0	
4-Nitrophenol	ND	J1	5.0	
Dibenzofuran	ND	J1	1.5	
2,4-Dinitrotoluene	ND	J1	5.0	
Pentachlorobenzene	ND	J1	1.5	
1-Naphthylamine	ND	J1	5.0	
2-Naphthylamine	ND	J1	5.0	
2,3,4,6-Tetrachlorophenol	ND	J1	1.5	
Diethylphthalate	ND	J1	1.5	
4-Chlorophenyl phenyl ether	ND	J1	1.5	
Fluorene	ND	J1	1.5	
4-Nitroaniline	ND	J1	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	O2	5.0	
Pronamide	ND		1.5	
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	ND		1.5	

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Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 16:48

<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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Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

Matrix: Water Date/Time Collected: 06/18/21 13:29

Sample Type: Grab Field pH: 8.6 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	8.20		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 11:00

<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 11:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	177		100	40000
Arsenic	ND		10.0	
Barium	51.2		5.00	
Beryllium	ND		1.00	
Boron	36.2		20.0	
Cadmium	ND		3.00	
Calcium	57200		300	100000

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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

Matrix: Water Date/Time Collected: 06/18/21 13:29

Sample Type: Grab Field pH: 8.6 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 11:40

<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	369		200	40000
Lead	ND		5.00	
Magnesium	38000		300	100000
Manganese	147		15.0	
Nickel	ND		5.00	
Potassium	3620		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	37200		1000	
Strontium	93.9		10.0	
Vanadium	ND		5.00	
Zinc	ND		25.0	
Hardness	299000		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 16:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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Trip ID: Temperature C: 11.00

Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

Matrix: Water Date/Time Collected: 06/18/21 13:29

Sample Type: Grab Field pH: 8.6 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 16:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NC)	1930		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 15:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	ND	I, J3	0.50	

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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-4** Lab Sample ID: **21F0772-01**

Matrix: Water Date/Time Collected: 06/18/21 13:29

Sample Type: Grab Field pH: 8.6 Collected By: TAB

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 13:09

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.208		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	49		4	

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Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 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 17:42

<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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Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 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 17:42

<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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 Collected By: TAB

Semivolatiles by GC/MS

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

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

<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	J3	1.5	
2-Methylphenol	ND		1.5	
2,2-Oxybis(1-chloropropane)	ND	J3	1.5	
Acetophenone	ND	J3	1.5	
4-Methylphenol	ND		1.5	
N-Nitrosodi-n-propylamine	ND		1.5	
Hexachloroethane	ND		1.5	
Nitrobenzene	ND	J3	1.5	
N-Nitrosopiperidine	ND		1.5	
Isophorone	ND	J3	1.5	
2-Nitrophenol	ND		5.0	
2,4-Dimethylphenol	ND		1.5	
Bis(2-chloroethoxy)methane	ND	J3	1.5	
2,4-Dichlorophenol	ND		1.5	
1,2,4-Trichlorobenzene	ND	J3	1.5	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 Collected By: TAB

Semivolatiles by GC/MS

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

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

<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	J3	1.5	
N-Nitrosodi-n-butylamine	ND		1.5	
4-Chloro-3-methylphenol	ND		1.5	
Isosafrole	ND	J3	1.5	
2-Methylnaphthalene	ND	J3	1.5	
1,2,4,5-Tetrachlorobenzene	ND	J1, J3	1.5	
Hexachlorocyclopentadiene	ND	J1	1.5	
2,4,6-Trichlorophenol	ND	J1	1.5	
2,4,5-Trichlorophenol	ND	J1	1.5	
Safrole	ND	J1	1.5	
2-Chloronaphthalene	ND	J1, J3	1.5	
1-Chloronaphthalene	ND	J1, J3	1.5	
2-Nitroaniline	ND	J1, J3	1.5	
1,4-Dinitrobenzene	ND	J1	5.0	
Dimethylphthalate	ND	J1	1.5	
1,3-Dinitrobenzene	ND	J1, J3	5.0	
2,6-Dinitrotoluene	ND	J1	1.5	
Acenaphthylene	ND	J1, J3	1.5	
1,2-Dinitrobenzene	ND	J1	1.5	
3-Nitroaniline	ND	J1	1.5	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 Collected By: TAB

Semivolatiles by GC/MS

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

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

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Acenaphthene	ND	J1, J3	1.5	
2,4-Dinitrophenol	ND	J1, O2	5.0	
4-Nitrophenol	ND	J1	5.0	
Dibenzofuran	ND	J1, J3	1.5	
2,4-Dinitrotoluene	ND	J1	5.0	
Pentachlorobenzene	ND	J1, J3	1.5	
1-Naphthylamine	ND	J1	5.0	
2-Naphthylamine	ND	J1	5.0	
2,3,4,6-Tetrachlorophenol	ND	J1	1.5	
Diethylphthalate	ND	J1, J3	1.5	
4-Chlorophenyl phenyl ether	ND	J1, J3	1.5	
Fluorene	ND	J1, J3	1.5	
4-Nitroaniline	ND	J1	1.5	
4,6-Dinitro-2-methylphenol	ND		5.0	
Diphenylamine	ND	J3	1.5	
Azobenzene	ND		1.5	
Phenacetin	ND		1.5	
4-Bromophenyl phenyl ether	ND	J3	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	J3	1.5	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 Collected By: TAB

Semivolatiles by GC/MS

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

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

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Carbazole	ND	J3	1.5	
4-Nitrobiphenyl	ND		5.0	
Di-n-butylphthalate	ND	J3	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	J3	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 : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 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	7.60		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 11:12

<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 11:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	105		100	40000
Arsenic	ND		10.0	
Barium	48.4		5.00	
Beryllium	ND		1.00	
Boron	34.9		20.0	
Cadmium	ND		3.00	
Calcium	55200		300	100000

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 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 11:46

<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	225		200	40000
Lead	ND		5.00	
Magnesium	38600		300	100000
Manganese	120		15.0	
Nickel	ND		5.00	
Potassium	3650		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	36900		1000	
Strontium	92.9		10.0	
Vanadium	ND		5.00	
Zinc	ND		25.0	
Hardness	297000		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 14:05

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 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 14:05

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NC)	2.99		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 15:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	1.99		0.50	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **C-6** Lab Sample ID: **21F0772-02**

Matrix: Water Date/Time Collected: 06/18/21 12:37

Sample Type: Grab Field pH: 8.7 Collected By: TAB

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 13:09

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.169		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	35		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

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

Units: ug/L Analyzed: 06/23/21 19:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloromethane	ND		100	
Vinyl chloride	ND		100	
Bromomethane	ND		250	
Chloroethane	ND		100	
Trichlorofluoromethane	ND		100	
Acetone	ND		500	
1,1-Dichloroethene	ND		100	
Methylene chloride	ND		250	
Carbon disulfide	ND		100	
trans-1,2-Dichloroethene	ND		100	
Methyl tert-butyl ether	ND		100	
1,1-Dichloroethane	ND		100	
2-Butanone (MEK)	ND		500	
cis-1,2-Dichloroethene	ND		100	
Bromochloromethane	ND		100	
Chloroform	ND		100	
2,2-Dichloropropane	ND		100	
1,2-Dichloroethane	ND		100	
1,1,1-Trichloroethane	ND		100	
1,1-Dichloropropene	ND		100	
Carbon tetrachloride	ND		100	
Benzene	ND		100	
Dibromomethane	ND		100	
1,2-Dichloropropane	ND		100	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

Volatiles Organic Compounds by Purge and Trap GC/MS

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

Units: ug/L Analyzed: 06/23/21 19:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Trichloroethene	ND		100	
Bromodichloromethane	ND		100	
cis-1,3-Dichloropropene	ND		100	
4-Methyl-2-pentanone (MIBK)	ND		500	
trans-1,3-Dichloropropene	ND		250	
1,1,2-Trichloroethane	ND		100	
Toluene	ND		100	
1,3-Dichloropropane	ND		100	
2-Hexanone (MBK)	ND		250	
Dibromochloromethane	ND		250	
1,2-Dibromoethane	ND		100	
Tetrachloroethene	ND		100	
1,1,1,2-Tetrachloroethane	ND		100	
Chlorobenzene	ND		100	
Ethylbenzene	ND		100	
Bromoform	ND		250	
Styrene	ND		100	
1,1,2,2-Tetrachloroethane	ND		100	
Xylenes, total	ND		100	
1,2,3-Trichloropropane	ND		100	
Isopropylbenzene	ND		100	
Bromobenzene	ND		100	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/22/21 09:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Pyridine	ND	J1	7.5	
2-Picoline	ND	J1	7.5	
Methyl methanesulfonate	ND	J1	7.5	
Ethyl methanesulfonate	ND	J1	7.5	
Phenol	ND	J1	7.5	
Bis(2-chloroethyl)ether	ND	J1	7.5	
2-Chlorophenol	ND	J1	7.5	
1,3-Dichlorobenzene	ND	J1	7.5	
1,4-Dichlorobenzene	ND	J1	7.5	
1,2-Dichlorobenzene	ND	J1	7.5	
2-Methylphenol	ND	J1	7.5	
2,2-Oxybis(1-chloropropane)	ND	J1	7.5	
Acetophenone	ND	J1	7.5	
4-Methylphenol	ND	J1	7.5	
N-Nitrosodi-n-propylamine	ND	J1	7.5	
Hexachloroethane	ND	J1	7.5	
Nitrobenzene	ND		7.5	
N-Nitrosopiperidine	ND		7.5	
Isophorone	ND		7.5	
2-Nitrophenol	ND		25	
2,4-Dimethylphenol	ND		7.5	
Bis(2-chloroethoxy)methane	ND		7.5	
2,4-Dichlorophenol	ND		7.5	
1,2,4-Trichlorobenzene	ND		7.5	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/22/21 09:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Naphthalene	ND		7.5	
4-Chloroaniline	ND		7.5	
2,6-Dichlorophenol	ND		7.5	
Hexachloropropene	ND		7.5	
Hexachlorobutadiene	ND		7.5	
N-Nitrosodi-n-butylamine	ND		7.5	
4-Chloro-3-methylphenol	ND		7.5	
Isosafrole	ND		7.5	
2-Methylnaphthalene	ND		7.5	
1,2,4,5-Tetrachlorobenzene	ND	J1	7.5	
Hexachlorocyclopentadiene	ND	J1	7.5	
2,4,6-Trichlorophenol	ND	J1	7.5	
2,4,5-Trichlorophenol	ND	J1	7.5	
Safrole	ND	J1	7.5	
2-Chloronaphthalene	ND	J1	7.5	
1-Chloronaphthalene	ND	J1	7.5	
2-Nitroaniline	ND	J1	7.5	
1,4-Dinitrobenzene	ND	J1	25	
Dimethylphthalate	ND	J1	7.5	
1,3-Dinitrobenzene	ND	J1	25	
2,6-Dinitrotoluene	ND	J1	7.5	
Acenaphthylene	ND	J1	7.5	
1,2-Dinitrobenzene	ND	J1	7.5	
3-Nitroaniline	ND	J1	7.5	

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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/22/21 09:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Acenaphthene	ND	J1	7.5	
2,4-Dinitrophenol	ND	J1, O2	25	
4-Nitrophenol	ND	J1, O2	25	
Dibenzofuran	ND	J1	7.5	
2,4-Dinitrotoluene	ND	J1	25	
Pentachlorobenzene	ND	J1	7.5	
1-Naphthylamine	ND	J1	25	
2-Naphthylamine	ND	J1	25	
2,3,4,6-Tetrachlorophenol	ND	J1	7.5	
Diethylphthalate	ND	J1	7.5	
4-Chlorophenyl phenyl ether	ND	J1	7.5	
Fluorene	ND	J1	7.5	
4-Nitroaniline	ND	J1	7.5	
4,6-Dinitro-2-methylphenol	ND	O2	25	
Diphenylamine	ND		7.5	
Azobenzene	ND		7.5	
Phenacetin	ND		7.5	
4-Bromophenyl phenyl ether	ND		7.5	
Hexachlorobenzene	ND		7.5	
Pentachlorophenol	ND	O2	25	
Pronamide	ND		7.5	
Pentachloronitrobenzene	ND		7.5	
Phenanthrene	ND		7.5	
Anthracene	ND		7.5	

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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/22/21 09:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Carbazole	ND		7.5	
4-Nitrobiphenyl	ND		25	
Di-n-butylphthalate	ND		7.5	
5-Nitroacenaphthene	ND		25	
Isodrin	ND		7.5	
Fluoranthene	ND		7.5	
Pyrene	ND		7.5	
p-Dimethylaminoazobenzene	ND		7.5	
Butyl benzyl phthalate	ND		25	
3,3-Dichlorobenzidine	ND		7.5	
Benzo(a)anthracene	ND		7.5	
Chrysene	ND		7.5	
Bis(2-ethylhexyl)phthalate	ND		25	
Mestranol	ND		25	
Di-n-octylphthalate	ND		25	
Benzo(b)fluoranthene	ND		7.5	
7,12-Dimethylbenzo(a)anthracene	ND		25	
Benzo(k)fluoranthene	ND		7.5	
Benzo(a)pyrene	ND		7.5	
Indeno(1,2,3-cd)pyrene	ND		25	
Dibenzo(a,h)anthracene	ND		25	
Benzo(ghi)perylene	ND		25	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 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	322	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 12:05

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Molybdenum	18600		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 11:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	923		100	40000
Arsenic	ND		10.0	
Barium	103		5.00	
Beryllium	ND		1.00	
Boron	9060		200	
Cadmium	ND		3.00	
Calcium	280000		3000	100000

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.0C

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 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 11:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chromium	46.7		5.00	
Cobalt	ND		10.0	
Copper	73.3		10.0	
Iron	1010		200	40000
Lead	14.9		5.00	
Magnesium	11400		300	100000
Manganese	48.9		15.0	
Nickel	ND		5.00	
Potassium	77800		1400	100000
Selenium	ND		20.0	
Silver	3.20		3.00	
Sodium	127000		1000	
Strontium	1820		10.0	
Vanadium	ND		5.00	
Zinc	192		25.0	
Hardness	735000		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 14:06

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 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 14:06

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NC)	2.17		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	2.01		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 16:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	37.6		0.50	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-1** Lab Sample ID: **21F0772-03**

Matrix: Water Date/Time Collected: 06/18/21 14:25

Sample Type: Grab Field pH: 11.3 Collected By: TAB

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 13:10

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.578		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	68		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 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 18:23

<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	47		10	
1,1-Dichloroethene	ND		2.0	
Methylene chloride	ND		5.0	
Carbon disulfide	16		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	2.4		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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 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 18:23

<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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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 17:57

<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	8.7		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	70		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 : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 17:57

<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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 17:57

<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		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	O2	5.0	
Pronamide	ND		1.5	
Pentachloronitrobenzene	ND		1.5	
Phenanthrene	ND		1.5	
Anthracene	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 : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 Collected By: TAB

Semivolatiles by GC/MS

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

Units: ug/L Analyzed: 06/21/21 17:57

<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	14		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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 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	198		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 12:09

<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 11:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	219		100	40000
Arsenic	ND		10.0	
Barium	51.8		5.00	
Beryllium	ND		1.00	
Boron	141		20.0	
Cadmium	ND		3.00	
Calcium	59400		300	100000

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 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 11:59

<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	197		10.0	
Iron	916		200	40000
Lead	ND		5.00	
Magnesium	25800		300	100000
Manganese	111		15.0	
Nickel	ND		5.00	
Potassium	11300		1400	100000
Selenium	ND		20.0	
Silver	ND		3.00	
Sodium	136000		1000	
Strontium	68.2		10.0	
Vanadium	ND		5.00	
Zinc	107		25.0	
Hardness	255000		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 14:10

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 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 14:10

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NC)	0.501		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	19.4		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	27.9		0.50	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **S-2** Lab Sample ID: **21F0772-04**

Matrix: Water Date/Time Collected: 06/18/21 14:52

Sample Type: Grab Field pH: 7.9 Collected By: TAB

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 13:32

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	3.14		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	70		4	

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LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **TRIP BLANK** Lab Sample ID: **21F0772-05**

Matrix: Water Date/Time Collected: 06/18/21 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 17:01

<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	18		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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

Client Sample ID: **TRIP BLANK** Lab Sample ID: **21F0772-05**

Matrix: Water Date/Time Collected: 06/18/21 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 17:01

<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	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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825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CHEMTOOL**

Project/Facility Number: [none] Date Received : 06/18/21

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 11.00

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.
- J3 The reported value failed to meet the established quality control criteria for either precision or accuracy possibly due to matrix effects.
- J1 Surrogate compound recovery limits have not been met.
- I See Case Narrative for more information.
- 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 21F0772-03, and -04. Please contact the laboratory if additional information about the TICs is needed.

21F0772-01 was source sample for TKN analysis matrix spike (MS). MS was Non-Detect, however, suspect severe matrix interference.

21F0772-03 BOD: Method quality control requirements not met.

Report Authorized by:

Tom Weiss
Laboratory Manager

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