



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G05MT** Lab Sample ID: **16G1179-01**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 08/04/16 09:31

Units: mg/L Analyzed: 08/04/16 16:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Cyanide	ND	J3	0.005	

pH

Method: SM 4500H+B Prepared: 08/01/16 15:00

Units: PH Analyzed: 08/01/16 15:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.0	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 08/04/16 10:15

Units: umho/cm Analyzed: 08/04/16 10:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	932.0		10.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G05MT** Lab Sample ID: **16G1179-01**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

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

Method: SM 2540C Prepared: 07/28/16 11:30

Units: mg/L Analyzed: 07/28/16 11:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	510		10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G05MD** Lab Sample ID: **16G1179-02**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 12:56

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	ND		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 08/03/16 10:00

Units: ug/L Analyzed: 08/04/16 12:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method: 6020 Prepared: 07/29/16 08:40

Units: ug/L Analyzed: 08/02/16 14:39

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	75.6		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G05MD** Lab Sample ID: **16G1179-02**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: mg/L Analyzed: 08/04/16 10:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	95.5		0.30	100000
Magnesium	43.4		0.30	100000
Potassium	2.84		1.40	100000
Sodium	28.1		0.30	
Hardness	417		1.98	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	224		5.00	
Beryllium	ND		1.00	
Boron	404		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	3960		50.0	40000
Manganese	42.8		15.0	
Nickel	ND		5.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G05MD** Lab Sample ID: **16G1179-02**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	584		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 08/02/16 10:08

Units: mg/L Analyzed: 08/02/16 12:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NO ₃)	ND		0.100	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1 Prepared: 07/28/16 12:49

Units: mg/L Analyzed: 07/28/16 12:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	14.2		0.10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G05MD** Lab Sample ID: **16G1179-02**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

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

Method: EPA 365.1 Prepared: 07/28/16 09:40

Units: mg/L Analyzed: 07/28/16 16:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.193		0.0050	

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 12:56

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Sulfate	ND		10.0	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G09DT** Lab Sample ID: **16G1179-03**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 11:20

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 08/04/16 09:31

Units: mg/L Analyzed: 08/04/16 16:39

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Cyanide	ND		0.005	

pH

Method: SM 4500H+B Prepared: 08/01/16 15:00

Units: PH Analyzed: 08/01/16 15:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.4	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 08/04/16 10:15

Units: umho/cm Analyzed: 08/04/16 10:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	2188		10.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G09DT** Lab Sample ID: **16G1179-03**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 11:20

Sample Type: Sample Depth: Total Depth:

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

Method: SM 2540C Prepared: 07/28/16 11:30

Units: mg/L Analyzed: 07/28/16 11:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	1820		10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G09DD** Lab Sample ID: **16G1179-04**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 11:20

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:27

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	37.4		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 08/03/16 10:00

Units: ug/L Analyzed: 08/04/16 12:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method: 6020 Prepared: 07/29/16 08:40

Units: ug/L Analyzed: 08/02/16 14:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	ND		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G09DD** Lab Sample ID: **16G1179-04**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 11:20

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: mg/L Analyzed: 08/04/16 10:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	240		0.30	100000
Magnesium	110		0.30	100000
Potassium	10.3		1.40	100000
Sodium	107		0.30	
Hardness	1050		1.98	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	52.5		5.00	
Beryllium	ND		1.00	
Boron	373		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	448		50.0	40000
Manganese	47.2		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G09DD** Lab Sample ID: **16G1179-04**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 11:20

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	1700		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 08/02/16 10:08

Units: mg/L Analyzed: 08/02/16 12:33

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NO ₃)	ND		0.100	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1 Prepared: 07/28/16 12:52

Units: mg/L Analyzed: 07/28/16 12:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	11.1		0.10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G09DD** Lab Sample ID: **16G1179-04**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 11:20

Sample Type: Sample Depth: Total Depth:

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

Method: EPA 365.1 Prepared: 07/28/16 09:40

Units: mg/L Analyzed: 07/28/16 16:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.0410		0.0050	

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 14:39

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Sulfate	740		100	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G16MT** Lab Sample ID: **16G1179-05**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:10

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 08/04/16 09:31

Units: mg/L Analyzed: 08/04/16 16:39

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Cyanide	ND		0.005	

pH

Method: SM 4500H+B Prepared: 08/01/16 15:00

Units: PH Analyzed: 08/01/16 15:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.0	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 08/04/16 10:15

Units: umho/cm Analyzed: 08/04/16 10:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	1285		10.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G16MT** Lab Sample ID: **16G1179-05**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:10

Sample Type: Sample Depth: Total Depth:

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

Method: SM 2540C Prepared: 07/28/16 11:30

Units: mg/L Analyzed: 07/28/16 11:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	704		10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G16MD** Lab Sample ID: **16G1179-06**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:10

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	4.01		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 08/03/16 10:00

Units: ug/L Analyzed: 08/04/16 12:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method: 6020 Prepared: 07/29/16 08:40

Units: ug/L Analyzed: 08/02/16 14:45

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	359		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G16MD** Lab Sample ID: **16G1179-06**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:10

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: mg/L Analyzed: 08/04/16 10:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	115		0.30	100000
Magnesium	59.3		0.30	100000
Potassium	6.18		1.40	100000
Sodium	49.1		0.30	
Hardness	532		1.98	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	379		5.00	
Beryllium	ND		1.00	
Boron	668		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	5450		50.0	40000
Manganese	33.1		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G16MD** Lab Sample ID: **16G1179-06**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:10

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	897		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 08/02/16 10:08

Units: mg/L Analyzed: 08/02/16 12:34

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO2) + Nitrate (NC)	0.112		0.100	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1 Prepared: 07/28/16 14:38

Units: mg/L Analyzed: 07/28/16 14:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	27.8		0.50	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G16MD** Lab Sample ID: **16G1179-06**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:10

Sample Type: Sample Depth: Total Depth:

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

Method: EPA 365.1 Prepared: 07/28/16 09:40

Units: mg/L Analyzed: 07/28/16 16:32

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.253		0.0050	

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Sulfate	10.1		10.0	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G39MT** Lab Sample ID: **16G1179-07**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:50

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 08/04/16 09:31

Units: mg/L Analyzed: 08/04/16 16:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Cyanide	ND		0.005	

pH

Method: SM 4500H+B Prepared: 08/01/16 15:00

Units: PH Analyzed: 08/01/16 15:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.0	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 08/04/16 10:15

Units: umho/cm Analyzed: 08/04/16 10:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	1136		10.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G39MT** Lab Sample ID: **16G1179-07**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:50

Sample Type: Sample Depth: Total Depth:

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

Method: SM 2540C Prepared: 07/28/16 11:30

Units: mg/L Analyzed: 07/28/16 11:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	650		10	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G39MD** Lab Sample ID: **16G1179-08**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:50

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:48

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	3.55		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 08/03/16 10:00

Units: ug/L Analyzed: 08/04/16 12:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method: 6020 Prepared: 07/29/16 08:40

Units: ug/L Analyzed: 08/02/16 14:48

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	7.61		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G39MD** Lab Sample ID: **16G1179-08**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:50

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: mg/L Analyzed: 08/04/16 10:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	123		0.30	100000
Magnesium	49.7		0.30	100000
Potassium	4.53		1.40	100000
Sodium	39.7		0.30	
Hardness	511		1.98	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	321		5.00	
Beryllium	ND		1.00	
Boron	476		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	7840		50.0	40000
Manganese	56.4		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G39MD** Lab Sample ID: **16G1179-08**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:50

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	732		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 08/02/16 10:08

Units: mg/L Analyzed: 08/02/16 12:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NO ₃)	ND		0.100	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1 Prepared: 07/28/16 14:41

Units: mg/L Analyzed: 07/28/16 14:41

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	15.9		0.50	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G39MD** Lab Sample ID: **16G1179-08**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 12:50

Sample Type: Sample Depth: Total Depth:

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

Method: EPA 365.1 Prepared: 07/28/16 09:40

Units: mg/L Analyzed: 07/28/16 16:33

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.343		0.0050	

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:48

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Sulfate	ND		10.0	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G90MT** Lab Sample ID: **16G1179-09**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 08/04/16 09:31

Units: mg/L Analyzed: 08/04/16 16:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Cyanide	ND		0.005	

pH

Method: SM 4500H+B Prepared: 08/01/16 15:00

Units: PH Analyzed: 08/01/16 15:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.1	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 08/04/16 10:15

Units: umho/cm Analyzed: 08/04/16 10:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	934.0		10.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G90MT** Lab Sample ID: **16G1179-09**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

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

Method: SM 2540C Prepared: 07/28/16 11:30

Units: mg/L Analyzed: 07/28/16 11:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	522		10	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G90MD** Lab Sample ID: **16G1179-10**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	ND		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 08/03/16 10:00

Units: ug/L Analyzed: 08/04/16 12:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	ND		0.06	

Metals by EPA 6000/7000 Series Methods

Method: 6020 Prepared: 07/29/16 08:40

Units: ug/L Analyzed: 08/02/16 14:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	70.4		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G90MD** Lab Sample ID: **16G1179-10**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: mg/L Analyzed: 08/04/16 10:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	97.3		0.30	100000
Magnesium	43.7		0.30	100000
Potassium	2.75		1.40	100000
Sodium	27.6		0.30	
Hardness	423		1.98	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	226		5.00	
Beryllium	ND		1.00	
Boron	412		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	3960		50.0	40000
Manganese	42.6		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G90MD** Lab Sample ID: **16G1179-10**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 08/01/16 08:39

Units: ug/L Analyzed: 08/04/16 10:52

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	575		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 08/02/16 10:08

Units: mg/L Analyzed: 08/02/16 12:36

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate (NO ₃)	ND		0.100	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1 Prepared: 07/28/16 13:06

Units: mg/L Analyzed: 07/28/16 13:06

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	14.3		0.10	

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Reported:
08/17/16 08:05
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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Client Sample ID: **G90MD** Lab Sample ID: **16G1179-10**

Matrix: Water Collected By: JT Date/Time Collected: 07/27/16 10:25

Sample Type: Sample Depth: Total Depth:

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

Method: EPA 365.1 Prepared: 07/29/16 10:09

Units: mg/L Analyzed: 08/01/16 12:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.201		0.0050	

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 08/03/16 08:05

Units: mg/L Analyzed: 08/03/16 13:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Sulfate	ND		10.0	

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Illinois Environmental Protection Agency Laboratory

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LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/27/16

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 14.00

Notes and Definitions

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

Report Authorized by:

Tom Weiss
Laboratory Manager

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