



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G06DT** Lab Sample ID: **18G0627-01**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 10:31

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 07/18/18 09:43

Units: mg/L Analyzed: 07/18/18 13:14

<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: 07/19/18 12:12

Units: PH Analyzed: 07/19/18 12:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.3	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 07/18/18 11:20

Units: $\mu\text{mho/cm @ 25.0 }^{\circ}\text{C}$ Analyzed: 07/18/18 12:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	1196.00		10.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G06DT** Lab Sample ID: **18G0627-01**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 10:31

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 07/18/18 15:04

Units: mg/L Analyzed: 07/18/18 15:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	676		10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G06DD** Lab Sample ID: **18G0627-02**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 10:31

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:26

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	1.36		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 07/19/18 10:40

Units: ug/L Analyzed: 07/27/18 13:15

<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: 07/20/18 09:35

Units: ug/L Analyzed: 07/23/18 14:28

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	92.3		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G06DD** Lab Sample ID: **18G0627-02**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 10:31

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: mg/L Analyzed: 07/30/18 11:53

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	119		0.30	100000
Hardness	538		1.98	
Magnesium	58.8		0.30	100000
Potassium	4.66		1.40	100000
Sodium	47.2		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 11:53

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	351		5.00	
Beryllium	ND		1.00	
Boron	396		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	4010		50.0	40000
Manganese	24.5		15.0	
Nickel	ND		5.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G06DD** Lab Sample ID: **18G0627-02**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 10:31

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 11:53

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	541		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 07/18/18 12:02

Units: mg/L Analyzed: 07/18/18 13:58

<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: 07/19/18 08:18

Units: mg/L Analyzed: 07/19/18 14:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	12.2		0.10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G06DD** Lab Sample ID: **18G0627-02**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 10:31

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:26

<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 : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G58MT** Lab Sample ID: **18G0627-03**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:56

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 07/18/18 09:43

Units: mg/L Analyzed: 07/18/18 13:14

<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: 07/19/18 12:12

Units: PH Analyzed: 07/19/18 12:14

<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: 07/18/18 11:20

Units: $\mu\text{mho/cm @ } 25.0\text{ }^\circ\text{C}$ Analyzed: 07/18/18 12:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	927.00		10.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G58MT** Lab Sample ID: **18G0627-03**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:56

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 07/18/18 15:04

Units: mg/L Analyzed: 07/18/18 15:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	552		10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G58MD** Lab Sample ID: **18G0627-04**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:56

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:36

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	8.00		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 07/19/18 10:40

Units: ug/L Analyzed: 07/27/18 13:15

<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: 07/20/18 09:35

Units: ug/L Analyzed: 07/23/18 14:31

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	30.1		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G58MD** Lab Sample ID: **18G0627-04**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:56

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: mg/L Analyzed: 07/30/18 11:56

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	87.2		0.30	100000
Hardness	379		1.98	
Magnesium	39.3		0.30	100000
Potassium	3.17		1.40	100000
Sodium	46.9		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 11:56

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	211		5.00	
Beryllium	ND		1.00	
Boron	193		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	3350		50.0	40000
Manganese	46.3		15.0	
Nickel	ND		5.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G58MD** Lab Sample ID: **18G0627-04**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:56

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 11:56

<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: 07/18/18 12:02

Units: mg/L Analyzed: 07/18/18 13:59

<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: 07/19/18 08:18

Units: mg/L Analyzed: 07/19/18 14:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	7.54		0.10	

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Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G58MD** Lab Sample ID: **18G0627-04**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:56

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:36

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Sulfate	93.9		10.0	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G32MT** Lab Sample ID: **18G0627-05**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 11:26

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 07/18/18 09:43

Units: mg/L Analyzed: 07/18/18 13:17

<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: 07/19/18 12:12

Units: PH Analyzed: 07/19/18 12:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.3	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 07/18/18 11:20

Units: $\mu\text{mho/cm @ } 25.0\text{ }^\circ\text{C}$ Analyzed: 07/18/18 12:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	1041.00		10.00	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G32MT** Lab Sample ID: **18G0627-05**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 11:26

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 07/18/18 15:04

Units: mg/L Analyzed: 07/18/18 15:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	584		10	

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Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G32MD** Lab Sample ID: **18G0627-06**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 11:26

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:46

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	5.62		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 07/19/18 10:40

Units: ug/L Analyzed: 07/27/18 13:15

<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: 07/20/18 09:35

Units: ug/L Analyzed: 07/23/18 14:34

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	7.59		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G32MD** Lab Sample ID: **18G0627-06**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 11:26

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: mg/L Analyzed: 07/30/18 11:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	99.3		0.30	100000
Hardness	465		1.98	
Magnesium	52.6		0.30	100000
Potassium	5.07		1.40	100000
Sodium	36.9		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 11:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	128		60.0	40000
Barium	265		5.00	
Beryllium	ND		1.00	
Boron	363		10.0	
Cadmium	5.03	I	3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	14800		50.0	40000
Manganese	114		15.0	
Nickel	8.23		5.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G32MD** Lab Sample ID: **18G0627-06**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 11:26

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 11:59

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	754		5.00	
Vanadium	ND		5.00	
Zinc	98.0		25.0	

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

Method: 353.2 Prepared: 07/18/18 12:02

Units: mg/L Analyzed: 07/18/18 14:00

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO2) + Nitrate (NC)	0.114		0.100	

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

Method: EPA 350.1 Prepared: 07/19/18 08:18

Units: mg/L Analyzed: 07/19/18 14:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	10.1		0.10	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G32MD** Lab Sample ID: **18G0627-06**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 11:26

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:46

<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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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G34DT** Lab Sample ID: **18G0627-07**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 07/18/18 09:43

Units: mg/L Analyzed: 07/18/18 13:17

<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: 07/19/18 12:12

Units: PH Analyzed: 07/19/18 12:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.2	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 07/18/18 11:20

Units: $\mu\text{mho/cm @ 25.0 }^{\circ}\text{C}$ Analyzed: 07/18/18 12:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	1208.00		10.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G34DT** Lab Sample ID: **18G0627-07**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 07/18/18 15:04

Units: mg/L Analyzed: 07/18/18 15:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	684		10	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G34DD** Lab Sample ID: **18G0627-08**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:55

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	3.63		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 07/19/18 10:40

Units: ug/L Analyzed: 07/27/18 13:15

<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: 07/20/18 09:35

Units: ug/L Analyzed: 07/23/18 14:38

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	28.3		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G34DD** Lab Sample ID: **18G0627-08**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: mg/L Analyzed: 07/30/18 12:07

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	113		0.30	100000
Hardness	522		1.98	
Magnesium	58.2		0.30	100000
Potassium	6.38		1.40	100000
Sodium	50.6		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 12:07

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	336		5.00	
Beryllium	ND		1.00	
Boron	431		10.0	
Cadmium	5.57	I	3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	16300		50.0	40000
Manganese	163		15.0	
Nickel	8.90		5.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G34DD** Lab Sample ID: **18G0627-08**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 12:07

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	813		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 07/18/18 12:02

Units: mg/L Analyzed: 07/18/18 14:01

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO2) + Nitrate (NC)	0.108		0.100	

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

Method: EPA 350.1 Prepared: 07/19/18 08:18

Units: mg/L Analyzed: 07/19/18 14:43

<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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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G34DD** Lab Sample ID: **18G0627-08**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 10:55

<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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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G90DT** Lab Sample ID: **18G0627-09**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 07/18/18 09:43

Units: mg/L Analyzed: 07/18/18 13:18

<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: 07/19/18 12:12

Units: PH Analyzed: 07/19/18 12:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.2	Q	0.1	

Specific Conductance by Standard Method 2510B

Method: 2510B Prepared: 07/18/18 11:20

Units: $\mu\text{mho/cm @ 25.0 }^{\circ}\text{C}$ Analyzed: 07/18/18 12:40

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	1215.00		10.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G90DT** Lab Sample ID: **18G0627-09**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 07/18/18 15:04

Units: mg/L Analyzed: 07/18/18 15:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	686		10	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G90DD** Lab Sample ID: **18G0627-10**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 11:05

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	3.66		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 07/19/18 10:40

Units: ug/L Analyzed: 07/27/18 13:15

<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: 07/20/18 09:35

Units: ug/L Analyzed: 07/23/18 14:41

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	27.3		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G90DD** Lab Sample ID: **18G0627-10**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: mg/L Analyzed: 07/30/18 12:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	115		0.30	100000
Hardness	527		1.98	
Magnesium	58.5		0.30	100000
Potassium	6.37		1.40	100000
Sodium	51.3		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 12:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	337		5.00	
Beryllium	ND		1.00	
Boron	429		10.0	
Cadmium	5.89	I	3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	16400		50.0	40000
Manganese	165		15.0	
Nickel	8.93		5.00	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G90DD** Lab Sample ID: **18G0627-10**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 07/20/18 09:36

Units: ug/L Analyzed: 07/30/18 12:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	817		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 07/18/18 12:02

Units: mg/L Analyzed: 07/18/18 14:02

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

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

Method: EPA 350.1 Prepared: 07/19/18 08:18

Units: mg/L Analyzed: 07/19/18 14:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	12.3		0.10	

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REVISED LABORATORY RESULTS

Name: **CLINTON LANDFILL #3**

Project/Facility Number: 0390055036 Date Received : 07/17/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 19.00

Client Sample ID: **G90DD** Lab Sample ID: **18G0627-10**

Matrix: Water Collected By: JEFF TURNER Date/Time Collected: 07/17/18 12:10

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 07/18/18 07:03

Units: mg/L Analyzed: 07/18/18 11:05

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

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

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

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Notes and Definitions

- Q Maximum holding time exceeded.
- I See Case Narrative for more information.
- ND Analyte NOT DETECTED at or above the reporting limit
- * Non-NELAP accredited

Samples 18G0627-06, 18G0627-08 and 18G0627-10: ICP NON-MINERALS GW Cadmium results could not be confirmed by a separate digestion and ICP/MS analysis. Possible interferences with Cadmium during ICP analysis may have led to false positive detects of Cadmium.

Revised reports issued on 9/27/2018 to include a case narrative for Cadmium results.

Report Authorized by:

Tom Weiss
Laboratory Manager

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