



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G18DT** Lab Sample ID: **18B0280-01**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 02/15/18 09:11

Units: mg/L Analyzed: 02/15/18 14:49

<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: 02/15/18 12:13

Units: PH Analyzed: 02/15/18 12:17

<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: 02/27/18 09:56

Units: $\mu\text{mho/cm @ 25.0 }^{\circ}\text{C}$ Analyzed: 02/27/18 10:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	678.00		10.00	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G18DT** Lab Sample ID: **18B0280-01**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 02/14/18 16:15

Units: mg/L Analyzed: 02/14/18 16:15

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	362		10	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G18DD** Lab Sample ID: **18B0280-02**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 12:44

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	2.56		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 02/20/18 15:26

Units: ug/L Analyzed: 02/23/18 10:01

<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: 02/20/18 10:32

Units: ug/L Analyzed: 02/26/18 11:02

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	118		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G18DD** Lab Sample ID: **18B0280-02**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: mg/L Analyzed: 02/27/18 11:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	63.0		0.30	100000
Hardness	312		1.98	
Magnesium	37.5		0.30	100000
Potassium	1.98		1.40	100000
Sodium	21.1		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	111		5.00	
Beryllium	ND		1.00	
Boron	197		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	2690		50.0	40000
Manganese	ND		15.0	
Nickel	ND		5.00	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G18DD** Lab Sample ID: **18B0280-02**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:11

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	429		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 02/15/18 11:01

Units: mg/L Analyzed: 02/15/18 13:01

<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: 350.1 Prepared: 02/15/18 14:21

Units: mg/L Analyzed: 02/15/18 14:21

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	5.15		0.10	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G18DD** Lab Sample ID: **18B0280-02**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 12:44

<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: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G30DT** Lab Sample ID: **18B0280-03**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:15

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 02/15/18 09:11

Units: mg/L Analyzed: 02/15/18 14:50

<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: 02/15/18 12:13

Units: PH Analyzed: 02/15/18 12:17

<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: 02/27/18 09:56

Units: $\mu\text{mho/cm @ } 25.0\text{ }^\circ\text{C}$ Analyzed: 02/27/18 10:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	761.00		10.00	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G30DT** Lab Sample ID: **18B0280-03**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:15

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 02/14/18 16:15

Units: mg/L Analyzed: 02/14/18 16:15

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	412		10	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G30DD** Lab Sample ID: **18B0280-04**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:15

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 12:54

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	2.73		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 02/20/18 15:26

Units: ug/L Analyzed: 02/23/18 10:01

<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: 02/20/18 10:32

Units: ug/L Analyzed: 02/26/18 11:06

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	36.9		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G30DD** Lab Sample ID: **18B0280-04**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:15

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: mg/L Analyzed: 02/27/18 11:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	74.1		0.30	100000
Hardness	354		1.98	
Magnesium	41.1		0.30	100000
Potassium	1.70		1.40	100000
Sodium	22.1		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	118		5.00	
Beryllium	ND		1.00	
Boron	186		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	3090		50.0	40000
Manganese	19.1		15.0	
Nickel	ND		5.00	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G30DD** Lab Sample ID: **18B0280-04**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:15

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:14

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	470		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 02/15/18 11:01

Units: mg/L Analyzed: 02/15/18 13:02

<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: 350.1 Prepared: 02/15/18 14:25

Units: mg/L Analyzed: 02/15/18 14:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	3.76		0.10	

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Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G30DD** Lab Sample ID: **18B0280-04**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:15

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 12:54

<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: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **R31DT** Lab Sample ID: **18B0280-05**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:55

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 02/15/18 09:11

Units: mg/L Analyzed: 02/15/18 14:52

<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: 02/15/18 12:13

Units: PH Analyzed: 02/15/18 12:17

<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: 02/27/18 09:56

Units: $\mu\text{mho/cm @ } 25.0\text{ }^\circ\text{C}$ Analyzed: 02/27/18 10:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	842.00		10.00	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **R31DT** Lab Sample ID: **18B0280-05**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:55

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 02/14/18 16:15

Units: mg/L Analyzed: 02/14/18 16:15

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	476		10	

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Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **R31DD** Lab Sample ID: **18B0280-06**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:55

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 13:04

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	1.90		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 02/20/18 15:26

Units: ug/L Analyzed: 02/23/18 10:01

<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: 02/20/18 10:32

Units: ug/L Analyzed: 02/26/18 11:09

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	2.33		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **R31DD** Lab Sample ID: **18B0280-06**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:55

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: mg/L Analyzed: 02/27/18 11:17

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	93.2		0.30	100000
Hardness	424		1.98	
Magnesium	46.4		0.30	100000
Potassium	1.86	J3	1.40	100000
Sodium	22.4		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:17

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	178		5.00	
Beryllium	ND		1.00	
Boron	195		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	4260		50.0	40000
Manganese	30.1		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **R31DD** Lab Sample ID: **18B0280-06**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:55

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:17

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	522		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 02/15/18 11:01

Units: mg/L Analyzed: 02/15/18 13:03

<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: 350.1 Prepared: 02/15/18 14:28

Units: mg/L Analyzed: 02/15/18 14:28

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	2.36		0.10	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **R31DD** Lab Sample ID: **18B0280-06**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 11:55

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 13:04

<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: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G32DT** Lab Sample ID: **18B0280-07**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 12:25

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 02/15/18 09:11

Units: mg/L Analyzed: 02/15/18 14:53

<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: 02/15/18 12:13

Units: PH Analyzed: 02/15/18 12:17

<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: 02/27/18 09:56

Units: $\mu\text{mho/cm @ 25.0 }^{\circ}\text{C}$ Analyzed: 02/27/18 10:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	886.00		10.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G32DT** Lab Sample ID: **18B0280-07**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 12:25

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 02/14/18 16:15

Units: mg/L Analyzed: 02/14/18 16:15

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	496		10	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G32DD** Lab Sample ID: **18B0280-08**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 12:25

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 13:13

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	1.62		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 02/20/18 15:26

Units: ug/L Analyzed: 02/23/18 10:01

<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: 02/20/18 10:32

Units: ug/L Analyzed: 02/26/18 11:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	16.1		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G32DD** Lab Sample ID: **18B0280-08**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 12:25

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: mg/L Analyzed: 02/27/18 11:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	107		0.30	100000
Hardness	443		1.98	
Magnesium	42.3		0.30	100000
Potassium	1.44	I	1.40	100000
Sodium	20.7	I	0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		60.0	40000
Barium	200		5.00	
Beryllium	ND		1.00	
Boron	199		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	4190		50.0	40000
Manganese	50.0		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G32DD** Lab Sample ID: **18B0280-08**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 12:25

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:20

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	444		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 02/15/18 11:01

Units: mg/L Analyzed: 02/15/18 13:04

<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: 350.1 Prepared: 02/15/18 14:32

Units: mg/L Analyzed: 02/15/18 14:32

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	2.15		0.10	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G32DD** Lab Sample ID: **18B0280-08**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 12:25

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 13:13

<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: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G90DT** Lab Sample ID: **18B0280-09**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Cyanide by EPA Method 335.4

Method: 335.4 Prepared: 02/15/18 09:11

Units: mg/L Analyzed: 02/15/18 14:54

<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: 02/15/18 12:13

Units: PH Analyzed: 02/15/18 12:17

<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: 02/27/18 09:56

Units: $\mu\text{mho/cm @ } 25.0\text{ }^\circ\text{C}$ Analyzed: 02/27/18 10:57

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Specific Conductance	683.00		10.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G90DT** Lab Sample ID: **18B0280-09**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

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

Method: 2540C Prepared: 02/14/18 16:15

Units: mg/L Analyzed: 02/14/18 16:15

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Dissolved Solids	366		10	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G90DD** Lab Sample ID: **18B0280-10**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Chloride by Ion Chromatography 300.0

Method: EPA 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 13:42

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	2.57		1.00	

Mercury by EPA Method 7470

Method: 7470 Prepared: 02/20/18 15:26

Units: ug/L Analyzed: 02/23/18 10:01

<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: 02/20/18 10:32

Units: ug/L Analyzed: 02/26/18 11:15

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Antimony	ND		2.00	
Arsenic	120		0.50	
Lead	ND		5.00	
Selenium	ND		2.00	
Thallium	ND		2.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G90DD** Lab Sample ID: **18B0280-10**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Metals (Minerals) by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: mg/L Analyzed: 02/27/18 11:23

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Calcium	64.5		0.30	100000
Hardness	319		1.98	
Magnesium	38.5		0.30	100000
Potassium	1.99		1.40	100000
Sodium	21.4		0.30	

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:23

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	132		60.0	40000
Barium	113		5.00	
Beryllium	ND		1.00	
Boron	202		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	2730		50.0	40000
Manganese	ND		15.0	
Nickel	ND		5.00	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G90DD** Lab Sample ID: **18B0280-10**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Metals by EPA Method 6010 - ICP

Method: SW-846 6010 Prepared: 02/20/18 15:21

Units: ug/L Analyzed: 02/27/18 11:23

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Silver	ND		3.00	
Strontium	437		5.00	
Vanadium	ND		5.00	
Zinc	ND		25.0	

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

Method: 353.2 Prepared: 02/15/18 11:01

Units: mg/L Analyzed: 02/15/18 13:06

<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: 350.1 Prepared: 02/15/18 14:35

Units: mg/L Analyzed: 02/15/18 14:35

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	5.38		0.10	

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LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

Client Sample ID: **G90DD** Lab Sample ID: **18B0280-10**

Matrix: Water Collected By: JT Date/Time Collected: 02/13/18 10:20

Sample Type: Sample Depth: Total Depth:

Sulfate by Ion Chromatography 300.0

Method: 300.0 Prepared: 02/14/18 07:44

Units: mg/L Analyzed: 02/14/18 13:42

<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

LABORATORY RESULTS

Name: **INDIAN CREEK LANDFILL #2**

Project/Facility Number: 1790305011 Date Received : 02/13/18

Funding Code: LP43 Visit Number:

Trip ID: Temperature C: 7.00

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

Metals: 18B0280-08 Client Matrix Assessment- sample failed method dilution test for Sodium and post spike test for Potassium, indicating probable matrix interference.

Report Authorized by:

Tom Weiss
Laboratory Manager

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