



## 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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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>
<b>Total Dissolved Solids</b>	<b>362</b>		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: **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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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>
<b>Calcium</b>	<b>63.0</b>		0.30	100000
<b>Hardness</b>	<b>312</b>		1.98	
<b>Magnesium</b>	<b>37.5</b>		0.30	100000
<b>Potassium</b>	<b>1.98</b>		1.40	100000
<b>Sodium</b>	<b>21.1</b>		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
<b>Barium</b>	<b>111</b>		5.00	
Beryllium	ND		1.00	
<b>Boron</b>	<b>197</b>		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
<b>Iron</b>	<b>2690</b>		50.0	40000
Manganese	ND		15.0	
Nickel	ND		5.00	

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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	
<b>Strontium</b>	<b>429</b>		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 <sub>2</sub> ) + Nitrate (NO <sub>3</sub> )	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>
<b>Ammonia as N</b>	<b>5.15</b>		0.10	

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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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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>
<b>Total Dissolved Solids</b>	<b>412</b>		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:

#### **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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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>
<b>Calcium</b>	74.1		0.30	100000
<b>Hardness</b>	354		1.98	
<b>Magnesium</b>	41.1		0.30	100000
<b>Potassium</b>	1.70		1.40	100000
<b>Sodium</b>	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
<b>Barium</b>	<b>118</b>		5.00	
Beryllium	ND		1.00	
<b>Boron</b>	<b>186</b>		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
<b>Iron</b>	<b>3090</b>		50.0	40000
<b>Manganese</b>	<b>19.1</b>		15.0	
Nickel	ND		5.00	

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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	
<b>Strontium</b>	<b>470</b>		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 <sub>2</sub> ) + Nitrate (NO <sub>3</sub> )	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>
<b>Ammonia as N</b>	<b>3.76</b>		0.10	

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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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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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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>
<b>Total Dissolved Solids</b>	<b>476</b>		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: **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>
<b>Calcium</b>	<b>93.2</b>		0.30	100000
<b>Hardness</b>	<b>424</b>		1.98	
<b>Magnesium</b>	<b>46.4</b>		0.30	100000
<b>Potassium</b>	<b>1.86</b>	J3	1.40	100000
<b>Sodium</b>	<b>22.4</b>		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
<b>Barium</b>	<b>178</b>		5.00	
Beryllium	ND		1.00	
<b>Boron</b>	<b>195</b>		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
<b>Iron</b>	<b>4260</b>		50.0	40000
<b>Manganese</b>	<b>30.1</b>		15.0	
Nickel	ND		5.00	

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## Illinois Environmental Protection Agency Laboratory

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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	
<b>Strontium</b>	<b>522</b>		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 <sub>2</sub> ) + Nitrate (NO <sub>3</sub> )	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>
<b>Ammonia as N</b>	<b>2.36</b>		0.10	

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## Illinois Environmental Protection Agency Laboratory

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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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## Illinois Environmental Protection Agency Laboratory

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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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## Illinois Environmental Protection Agency Laboratory

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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>
<b>Total Dissolved Solids</b>	<b>496</b>		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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## Illinois Environmental Protection Agency Laboratory

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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>
<b>Calcium</b>	<b>107</b>		0.30	100000
<b>Hardness</b>	<b>443</b>		1.98	
<b>Magnesium</b>	<b>42.3</b>		0.30	100000
<b>Potassium</b>	<b>1.44</b>	I	1.40	100000
<b>Sodium</b>	<b>20.7</b>	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
<b>Barium</b>	<b>200</b>		5.00	
Beryllium	ND		1.00	
<b>Boron</b>	<b>199</b>		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
<b>Iron</b>	<b>4190</b>		50.0	40000
<b>Manganese</b>	<b>50.0</b>		15.0	
Nickel	ND		5.00	

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# Illinois Environmental Protection Agency Laboratory

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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	
<b>Strontium</b>	<b>444</b>		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 <sub>2</sub> ) + Nitrate (NO <sub>3</sub> )	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>
<b>Ammonia as N</b>	<b>2.15</b>		0.10	

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## Illinois Environmental Protection Agency Laboratory

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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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## Illinois Environmental Protection Agency Laboratory

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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:  $\mu\text{mho/cm @ 25.0 }^{\circ}\text{C}$  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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## 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: **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>
<b>Total Dissolved Solids</b>	<b>366</b>		10	

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## Illinois Environmental Protection Agency Laboratory

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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>
<b>Chloride</b>	<b>2.57</b>		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>
<b>Mercury</b>	<b>ND</b>		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>
<b>Antimony</b>	<b>ND</b>		2.00	
<b>Arsenic</b>	<b>120</b>		0.50	
<b>Lead</b>	<b>ND</b>		5.00	
<b>Selenium</b>	<b>ND</b>		2.00	
<b>Thallium</b>	<b>ND</b>		2.00	

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## Illinois Environmental Protection Agency Laboratory

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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>
<b>Calcium</b>	<b>64.5</b>		0.30	100000
<b>Hardness</b>	<b>319</b>		1.98	
<b>Magnesium</b>	<b>38.5</b>		0.30	100000
<b>Potassium</b>	<b>1.99</b>		1.40	100000
<b>Sodium</b>	<b>21.4</b>		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>
<b>Aluminum</b>	<b>132</b>		60.0	40000
<b>Barium</b>	<b>113</b>		5.00	
Beryllium	ND		1.00	
<b>Boron</b>	<b>202</b>		10.0	
Cadmium	ND		3.00	
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
<b>Iron</b>	<b>2730</b>		50.0	40000
Manganese	ND		15.0	
Nickel	ND		5.00	

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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: **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	
<b>Strontium</b>	<b>437</b>		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 <sub>2</sub> ) + Nitrate (NO <sub>3</sub> )	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>
<b>Ammonia as N</b>	<b>5.38</b>		0.10	

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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: **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	

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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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