

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

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March 07, 2022

Steuben County
Steve Orcutt
3 Pulteney Square East - Suite 14
Bath, NY 14810

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

Lindley Landfill (Closed Portion), Lindley
Steuben County, Site No.: 851008

Dear Steve Orcutt (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: January 1, 2021 to December 31, 2021.

The Department hereby accepts the PRR and associated Certification with the following comment:

- Please address site issues documented in the inspection reports including: woody vegetation on the landfill and in the swale; trees fallen on the fence; and gas vent repairs before the next certification period. Include any maintenance activities in the next PRR.

The frequency of Periodic Reviews for this site is 1 year, your next PRR is due on March 2, 2023. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions, or need additional forms, please contact me at 585-226-5349 or e-mail: danielle.miles@dec.ny.gov.

Sincerely,



Danielle Miles
Project Manager

cc: Darik Jordan, Barton a& Loguidice
David Pratt, NYSDEC
Melissa Doroski, NYSDOH



Department of
Environmental
Conservation

Environmental Monitoring Report

**Lindley South Landfill
(Closed)**

Steuben County, New York

Prepared for
Steuben County Department of Public Works

3 East Pulteney Square
Bath, New York 14810

June 2021

Environmental Monitoring Report
2021 Annual Report

Lindley South Landfill
(Closed)
Gibson Road, Town of Lindley
Steuben County, New York

Prepared For:

Steuben County
Department of Public Works
3 East Pulteney Square
Bath, New York 14810

Prepared By:

Barton & Loguidice, P.L.L.C.
443 Electronics Parkway
Liverpool, New York 13088

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SAMPLE COLLECTION INFORMATION

Sampling Firm: Barton & Loguidice, P.L.L.C.

Sampling Dates: June 21-21, 2021

Sampling Locations: (See Figure 1 - Site Location Map)

Monitoring Wells:

	Shallow Overburden Unit	Bedrock Unit
Upgradient	GW-1	
Downgradient	MW-1 ⁽¹⁾ MW-2S ⁽²⁾ MW-3 MW-4 GW-4	MW-2D
Surface Water		
SW-1	SW-2	SW-4
Leachate		
L-3		

Notes: ⁽¹⁾ MS/MSD Location

⁽²⁾ MW-X Location

Field Determinations:

pH
Temperature
Turbidity
Specific Conductance
Eh (Oxidation Reduction Potential)
Dissolved Oxygen (Surface Water Locations Only)
Groundwater Elevation Levels

Sample Testing

Laboratory:

ALS Environmental
1565 Jefferson Road
Building 300, Suite 360
Rochester, New York 14623

Test Report:

ALS Service Request Number R2106220 & R2106170

Parameters Tested:

All samples collected were analyzed for 1998 NYSDEC Part 360 Baseline parameters.

Post-Closure Monitoring Schedule:

Lindley South Landfill Post-Closure Monitoring Schedule (2017 - 2025)				
Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
2017	SNR	SNR	B	SNR
2018	SNR	SNR	SNR	R
2019	SNR	SNR	SNR	SNR
2020	R	SNR	SNR	SNR
2021	SNR	B	SNR	SNR
2022	SNR	SNR	R	SNR
2023	SNR	SNR	SNR	R
2024	SNR	SNR	SNR	SNR
2025	B	SNR	SNR	SNR
Notes: R = 1998 Part 360 Routine Parameters B = 1998 Part 360 Baseline Parameters SNR = Sampling Not Required				

ASSESSMENT OF MONITORING RESULTS

Background

The Lindley South Landfill is located south of Gibson Road in the Town of Lindley, New York. The Lindley South Landfill is approximately 16 acres in size, with dimensions of approximately 420 feet wide (north-south) and approximately 1,720 feet long (east-west). The Landfill accepted both industrial and municipal solid wastes from 1977 to 1983. In 1989, Steuben County installed a leachate collection system and intermediate cap. In 1998 the Lindley South Landfill was officially capped and closed in accordance with the current Part 360 regulations.

Introduction

This report presents the results of environmental monitoring performed during the Second Quarter of 2021 at the closed Lindley South Landfill, Steuben County, New York. The environmental monitoring was conducted in accordance with the Post-Closure Monitoring and Maintenance Operations Manual (C&S Engineers, Inc., October 1997 (revised April 1999)) and the NYSDEC post-closure monitoring reduction approval letter dated June 25, 2010. Field samples were collected from the designated monitoring points by field representatives from Barton & Loguidice, P.L.L.C. (B&L) and were submitted to TestAmerica Laboratories Inc. (TA) for analyses.

The Lindley South Landfill monitoring network consists of seven monitoring well locations, four surface water locations and one leachate collection monitoring location. Six of the monitoring wells are shallow monitoring wells that represent the Shallow Overburden Unit and one location representing the Bedrock Unit (MW-2D). Monitoring location GW-1 is the only upgradient location representing upgradient “naturally-occurring” groundwater quality. During the 2021 sampling event, all monitoring locations were analyzed for NYSDEC Part 360 Baseline parameters.

Groundwater Contours

Groundwater elevation data collected during the Second Quarter 2021 monitoring event is consistent with historical elevation data and the groundwater flow is predominantly to the northeast. Figure 2 indicates the groundwater flow direction and groundwater contours generated from groundwater elevation data collected from the 2021 Second Quarter monitoring event.

Shallow Overburden Unit

Prior to sample collection, the monitoring wells had three volumes purged or were purged until they went dry and samples were collected the following day, allowing the wells to recharge overnight. Quality assurance/quality control (QA/QC) samples were collected from MW-2S (Duplicate) and MW-1 (MS/MSD). Historical groundwater quality data is included in tabular form in Appendix C, and Part 703 Groundwater Standard exceedances are included in Table 1.

Upgradient Groundwater Quality Data

Monitoring location GW-1 represents the Shallow Overburden Unit upgradient groundwater quality from the closed landfill. During this monitoring event GW-1 did not exceed any groundwater standards and the results were consistent with historical data.

Downgradient Water Quality Data

The remainder of Shallow Overburden Unit monitoring locations represents downgradient groundwater quality for the Shallow Overburden Unit. These monitoring locations include MW-1, MW-2S, MW-3, MW-4, and GW-4. The downgradient groundwater quality does differ slightly from the upgradient groundwater quality. Parameters which exceeded NYSDEC Part 703 Groundwater Standards within downgradient monitoring locations include:

- MW-1: Total iron
- MW-2S: Boron, total dissolved solids and total metals magnesium, manganese, and sodium
- MW-3: Boron, total dissolved solids, turbidity, and total metals iron, magnesium, manganese and sodium
- MW-4: No Exceedances
- GW-4: Sulfate, total dissolved solids, turbidity, and total metals iron, magnesium, manganese, and sodium

A review of historical groundwater quality data was conducted to examine trends relative to the reported exceedances. The exceeded parameters were found to be generally consistent with the historical values reported at each monitoring location. A slight landfill influence has historically been evident within monitoring locations MW-2S, MW-3, and GW-4. Recent data from these locations demonstrate consistent groundwater quality over time.

Bedrock Unit

Monitoring location MW-2D at the Lindley South Landfill represents the Bedrock Unit. Based on the groundwater flow direction of the Shallow Overburden Unit, it is likely that MW-2D represents downgradient water quality for the Bedrock Unit. During this monitoring event, MW-2D exceeded the groundwater standards for total dissolved solids, and total metals arsenic, iron, manganese, and sodium. Included in Table 2 are the NYSDEC Part 703 Groundwater Standards observed during this monitoring event for MW-2D. The results obtained during this monitoring event are consistent with historical data.

Surface Water

There are four designated surface water monitoring locations at the Lindley South Landfill. Surface water location SW-1 represents upgradient surface water quality and the other locations are designated to monitor downgradient surface water quality.

The results were compared to Part 703 Class C Surface Water Standards. Surface water standards for total iron were exceeded at all surface water monitoring locations except for SW-1, which is consistent with historical data. The surface water results obtained during this monitoring event are consistent with historical data.

Leachate

The Lindley South Landfill has one primary leachate collection sampling location, L-3. The primary leachate generated from the Lindley South Landfill is stored in a 5,000-gallon aboveground storage tank (AST). The L-3 sample is collected from within the 5,000-gallon AST. The location of the tank is included in Figure 1. The leachate is hauled from the Lindley South Landfill to the New Bath Solid Waste Management Facility where it is treated. The 2021 results appear generally consistent with historical results. Historical leachate quality data for L-3 is included in Appendix C.

Perimeter Gas Monitoring

The Lindley South Landfill has a network of 10 permanent perimeter gas monitoring locations in place (included in Figure 1). These locations are monitored for methane percentage on a quarterly basis to determine if methane gas generated by the closed landfill is migrating from the closed landfill to the surrounding subsurface. The results (included in Appendix A) indicated that methane gas was not detected during the 2021 quarterly monitoring events.

QUALITY CONTROL

Duplicate Sample Comparison

Laboratory data precision is maintained by strict adherence to sampling procedures and analytical protocols. Precision is measured by monitoring the degree to which duplicate measurements are reproducible. Close agreement between field samples taken in duplicate and laboratory split duplicate samples provide measurements of sampling and laboratory precision. Precision was calculated as:

$$RPD = \frac{(D)}{(M)} \times 100$$

RPD = Relative Percent Difference

D = Difference between 2 measurements

M = Mean of 2 measurements

Precision and accuracy are measurements of reproducibility and the degree to which data approximate true values. These data qualities are controlled by defining acceptance limits for QC measurements associated with all reported data. RPD qualification criteria require sample and duplicate results to be greater than five times the contract required detection limit (CRQL). Or, if less than five times the CRQL, the difference between the sample and duplicate must be greater than two times the CRQL. This

criterion helps to eliminate minor differences in value, generally reported at low detection limits, which exhibit a large percentage difference.

The RPD comparisons yielded one discrepancy (Color – RPD – 25%) slightly above the RPD 20% criteria that also met the RPD qualification criteria between the duplicate and MW-2S sample data. Overall, the duplicate data collected from 2021 was closely reproduced and represents an acceptable degree of QA/QC compliance for the data package.

Cation/Anion Comparison

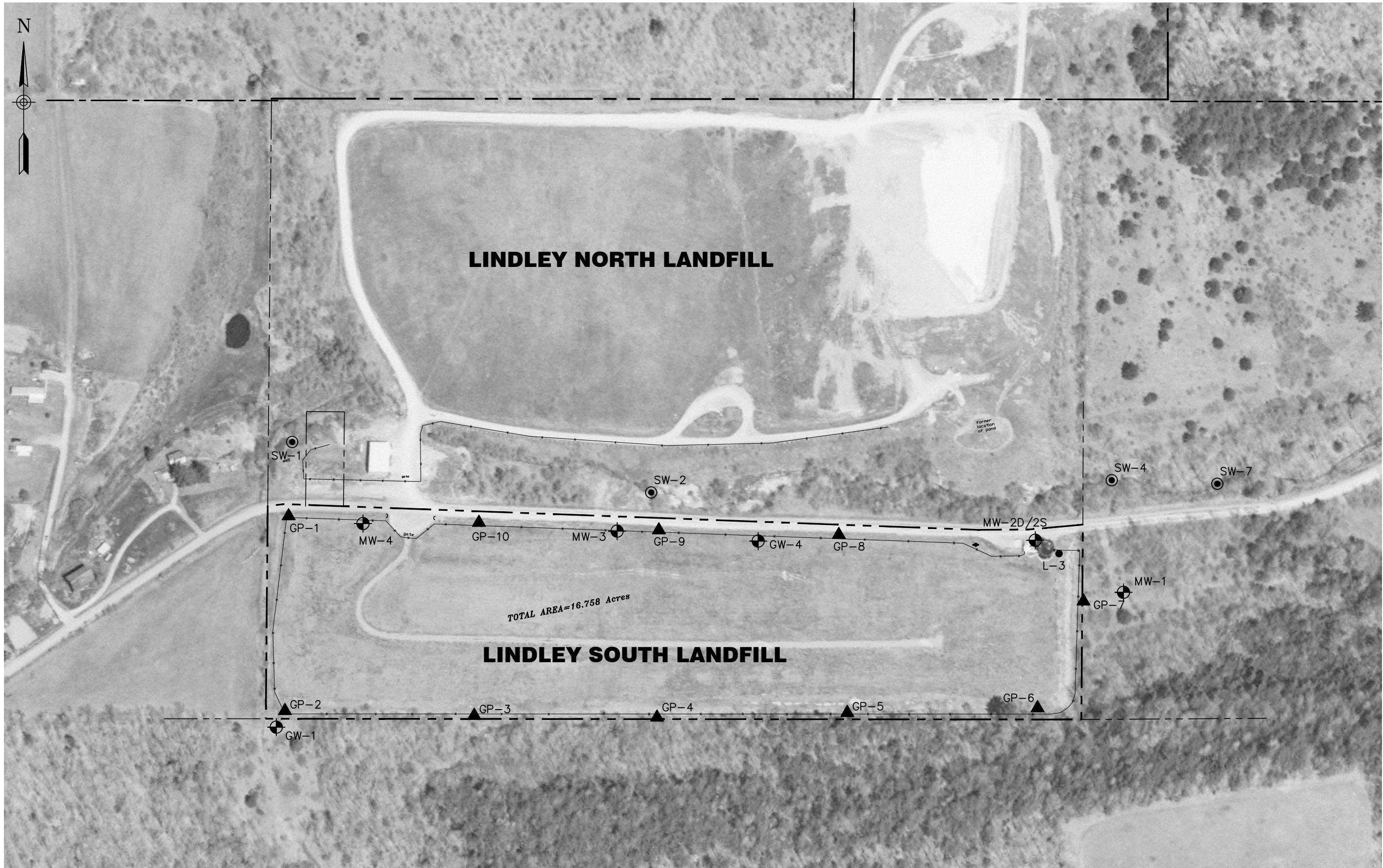
The cation/anion charge balance (Appendix E) can also be used as a general check on the relative percent difference between cations and anions (in terms of milliequivalents per liter). A charge imbalance is not likely to exist in natural groundwaters; therefore, if any excess or deficit of cations and anions is indicated from the analyses, it may be suspected either that the determinations are not precisely accurate, or that additional, non-quantified constituents may be present in the sample to account for the unbalanced charges. The balance check does not indicate which of these causes is more likely, nor does it identify which individual parameters may be implicated as a suspected source. A significant imbalance has been previously defined as one that exceeds 20%. There were no significant imbalances observed during this monitoring event. The data appears to be of good quality and representative of the actual site conditions when compared to historical data.

CONCLUSION

The collection of the 2021 round of groundwater samples at the closed Lindley South Landfill represents continual post-closure monitoring data for the site and the groundwater quality data is generally consistent with historical data gathered from the Lindley South Landfill since closure. A slight landfill influence continues to be evident in the Shallow Overburden along the north side of the landfill at monitoring locations MW-2S, MW-3, and GW-4. Recent data from these locations demonstrate consistent groundwater quality over time. The Lindley South Landfill will again be sampled in the Third Quarter of 2022 and will be a Part 360 Routine event.

Figures

Plotted: Mar 01, 2022 - 10:46AM SYR By: bas
Z:\BL-Vault\ID2\18217AD2-1C71-4823-8927-99D5C4054147\0\2547000-2547999\2547612\L\268027_FIG_SOUTH_FEB_2022 (ID 2547612).dwg



LINDLEY SOUTH LANDFILL

SITE PLAN

TOWN OF LINDLEY

STEUBEN COUNTY, N.Y.

**Barton
&Loguidice**

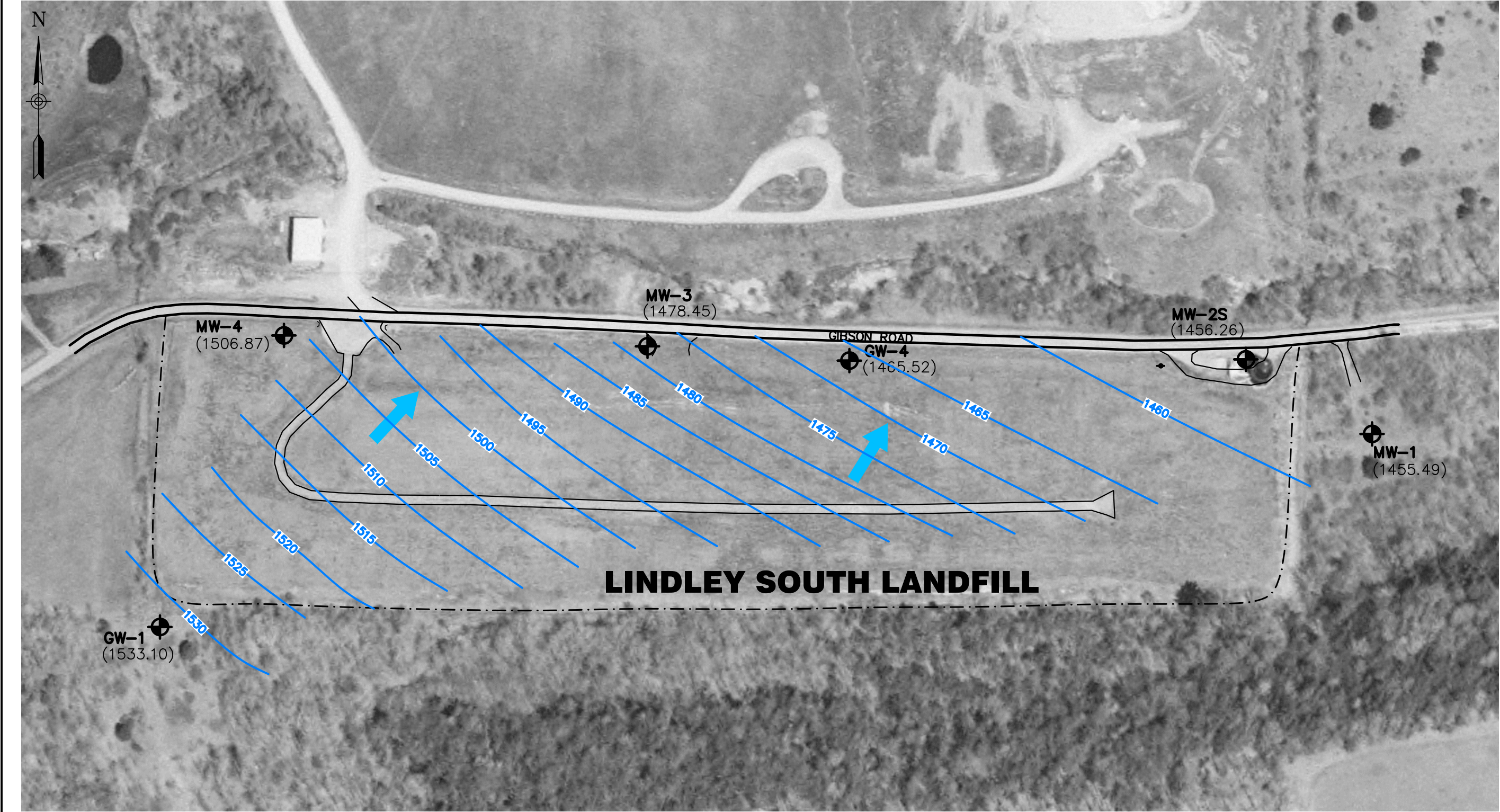
Date
FEBRUARY 2022

Scale
1"=200'

Figure Number
1

Project Number
268.027.021

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LEGEND:

-  **GW-1** SHALLOW WELL LOCATION
-  GROUNDWATER FLOW
-  1530 GROUNDWATER CONTOUR

LINDLEY SOUTH LANDFILL

**SHALLOW OVERBURDEN UNIT
GROUNDWATER CONTOURS**

JUNE 2021

**Barton
&Loguidice**

Date
FEBRUARY 2022

Scale
1"=150'

Figure Number
2

Project Number
268.027.021

TOWN OF LINDLEY

STEUBEN COUNTY, N.Y.

Tables

STEUBEN COUNTY, LINDLEY SOUTH LANDFILL

TABLE 1 - NYSDEC GROUNDWATER STANDARDS EXCEEDED

OVERBURDEN UNIT MONITORING WELLS (2021)

Page 1 of 1

PARAMETER	NYSDEC 6NYCRR PART 703 GROUNDWATER STANDARD OR [GUIDANCE] VALUE	MONITORING WELL LOCATIONS					
		MW-1 2021 SECOND QUARTER	MW-2S 2021 SECOND QUARTER	MW-3 2021 SECOND QUARTER	MW-4 2021 SECOND QUARTER	GW-1 2021 SECOND QUARTER	GW-4 2021 SECOND QUARTER
Boron	1.0 mg/l	-	11.3	1.65	-	-	-
Sulfate	250 mg/l	-	-	-	-	-	1070
Total Dissolved Solids	500 mg/l	-	791	818	-	-	1880
Turbidity	5 NTU	-	-	33.1	-	-	11.1
Iron - T	0.3 mg/l	4.76	-	10.90	-	-	2.40
- D		-	-	-	-	-	-
Magnesium - T	35 mg/l	-	46	79	-	-	100
- D		-	-	-	-	-	-
Manganese - T	0.3 mg/l	-	1.96	2.81	-	-	2.33
- D		-	-	-	-	-	-
Sodium - T	20 mg/l	-	75.3	31.3	-	-	105.0
- D		-	-	-	-	-	-

STEUBEN COUNTY, LINDLEY SOUTH LANDFILL
TABLE 2 - NYSDEC GROUNDWATER STANDARDS EXCEEDED
BEDROCK UNIT MONITORING WELLS (2021)

Page 1 of 1

PARAMETER	NYSDEC 6NYCRR PART 703 GROUNDWATER STANDARD OR [GUIDANCE] VALUE	MONITORING WELL LOCATIONS
		MW-2D 2021 SECOND QUARTER
Total Dissolved Solids	500 mg/l	615
Arsenic - T	0.025 mg/l	0.032
- D		-
Iron - T	0.3 mg/l	0.69
- D		-
Manganese - T	0.3 mg/l	0.85
- D		-
Sodium - T	20 mg/l	74.6
- D		-

STEUBEN COUNTY, LINDLEY SOUTH LANDFILL					
TABLE 3 - NYSDEC CLASS C SURFACE WATER STANDARDS EXCEEDED					
SURFACE WATER MONITORING LOCATIONS (2021)					
PARAMETER	NYSDEC 6NYCRR PART 703 CLASS C SURFACE WATER STANDARD OR [GUIDANCE] VALUE	SURFACE WATER LOCATIONS			
		SW-1	SW-2	SW-4	SW-7
		2021 SECOND QUARTER	2021 SECOND QUARTER	2021 SECOND QUARTER	2021 SECOND QUARTER
Total Iron	0.3 mg/l	-	0.89	0.48	0.69

Appendix A

FIELD SAMPLING DATA SHEET

SITE: Lindley South
 CLIENT: Steuben County
 Weather Conditions: cloudy

SAMPLE LOCATION: MW-1 (MS/MSD)
 JOB #: 268.027.021
 Temperature: 58°F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
 Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>8.48</u>
Measured Well Depth (feet)*:	<u>33.73</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>4.04</u>

*depth from measuring point

Measuring Point: Top of Riser
 Measured by: BJM
 Date: 6/21/21
 Time: 12:36

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
 Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
 Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 120/2

Actual Volume of Water Purged (gallons): 5.00

Did well purge dry? No ☐ Yes ☒ 1/3 Bailer
 Did well recover? No ☐ Yes ☒ Recovery Time: 10 mins

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
 Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
 Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & TJB Time: 11:38 Date: 6/22/21

SAMPLING DATA

Sample Appearance
 Color: clear Sediment: None
 Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.58</u>	Sp. Conductivity (umhos/cm)	<u>426.5</u>
Temperature (F)	<u>54.7</u>	Eh-Redox Potential (mV)	<u>135.0</u>
Turbidity (NTUs)	<u>3.94</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type): 6-Voc's @ 12:47
12 bottles bailed

Samples Delivered to: _____ Time: 16:33 Date: 6/22/21

COMMENTS:

mg/lmsu Voc's heavily sifted



FIELD SAMPLING DATA SHEET

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: cloudy

SAMPLE LOCATION: MW-2S (Dupe X)
JOB #: 268.027.021
Temperature: 57°F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>4.11</u>
Measured Well Depth (feet)*:	<u>27.86</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>3.8</u>

*depth from measuring point

Measuring Point: Top of Riser
Measured by: BJM/TJB
Date: 6/21/21
Time: 12:10

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 11.4

Actual Volume of Water Purged (gallons): 5.0

Did well purge dry? No ☐ Yes ☒ 1/2 bailer
Did well recover? No ☐ Yes ☒ Recovery Time: 06:00 hrs

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & TJB Time: 10:49 Date: 6/22/21

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: Faint leachate

Field Measured Parameters

pH (Standard Units)	<u>6.48</u> <u>7.02.0</u>	Sp. Conductivity (umhos/cm)	<u>1302.0</u>
Temperature (F)	<u>62.5</u>	Eh-Redox Potential (mV)	<u>68.0</u>
Turbidity (NTUs)	<u>1.70</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type):

12 Bottle baseline

6 - Vals @ 12:24 on 6/21/21

Samples Delivered to: _____

Time: 16:33 Date: 6/22/21

COMMENTS:

Dupe - X loc



FIELD SAMPLING DATA SHEET

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: cloudy

SAMPLE LOCATION: MW-2D
JOB #: 268.027.021
Temperature: 57°F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>38.94</u>
Measured Well Depth (feet)*:	<u>95.89</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>9.11</u>

*depth from measuring point

Measuring Point: Top of Riser
Measured by: BJM/ TJB
Date: 6/21/21
Time: 12:10

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 27.34

Actual Volume of Water Purged (gallons): 27.50

Did well purge dry? No ☒ Yes ☐

Did well recover? No ☐ Yes ☒

Recovery Time: Overnight

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & TJB Time: 11:02 Date: 6/22/21

SAMPLING DATA

Sample Appearance

Color: clear Sediment: None

Odor: Faint leachate

Field Measured Parameters

pH (Standard Units)	<u>7.49</u>	Sp. Conductivity (umhos/cm)	<u>960.6</u>
Temperature (F)	<u>52.4</u>	Eh-Redox Potential (mV)	<u>35</u>
Turbidity (NTUs)	<u>4.68</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type):

12 Bottle Samples

3 vac @ 13:02 on 6/21/21

Samples Delivered to: _____ Time: 16:33 Date: 6/22/21

COMMENTS:



FIELD SAMPLING DATA SHEET

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Cloudy

SAMPLE LOCATION: MW-4
JOB #: 268.027.021
Temperature: 57°F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>8.14</u>
Measured Well Depth (feet)*:	<u>28.78</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>3.29</u>

*depth from measuring point

Measuring Point: Top of Riser
Measured by: BJM/STJ
Date: 6/22/21
Time: 13:20

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 9.9

Actual Volume of Water Purged (gallons): 5.0

Did well purge dry? No ☐ Yes ☒ 1/2 Gritter
Did well recover? No ☐ Yes ☒ Recovery Time: Overnight

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & Time: 12:14 Date: 6/22/21

SAMPLING DATA

Sample Appearance

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	<u>6.72</u>	Sp. Conductivity (umhos/cm)	<u>555.2</u>
Temperature (F)	<u>53.9</u>	Eh-Redox Potential (mV)	<u>156.0</u>
Turbidity (NTUs)	<u>2.36</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type):

12 bottles baseline 3 - VOC's @ 13:27 on 6/22/21

Samples Delivered to: _____ Time: 16:33 Date: 6/22/21

COMMENTS:

FIELD SAMPLING DATA SHEET

SITE: Lindley South
 CLIENT: Steuben County
 Weather Conditions: cloudy

SAMPLE LOCATION: GW-1
 JOB #: 268.027.021
 Temperature: 57°F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
 Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>11.34</u>
Measured Well Depth (feet)*:	<u>30.10</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>3.00</u>

*depth from measuring point

Measuring Point: Top of Riser
 Measured by: BJM/TJP
 Date: 6/21/21
 Time: 13:43

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
 Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
 Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 9.0
 Actual Volume of Water Purged (gallons): 4253.75

Did well purge dry? No ☐ Yes ☒ 1/3 bailer
 Did well recover? No ☐ Yes ☒ Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
 Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
 Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & Time: 12:29 Date: 6/21/21

SAMPLING DATA

Sample Appearance
 Color: clear Sediment: None
 Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.63</u>	Sp. Conductivity (umhos/cm)	<u>489.5</u>
Temperature (F)	<u>49.3</u>	Eh-Redox Potential (mV)	<u>156.0</u>
Turbidity (NTUs)	<u>0.56</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type): 3 vac's @ 13:50 on 6/21/21
12 Multi Baseline

Samples Delivered to: _____ Time: 16:33 Date: 6/22/21

COMMENTS:



FIELD SAMPLING DATA SHEET

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Cloudy / Windy

SAMPLE LOCATION: GW-4
JOB #: 268.027.021
Temperature: 55°F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>17.15</u>
Measured Well Depth (feet)*:	<u>50.14</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>5.27</u>

*depth from measuring point

Measuring Point: Top of Riser
Measured by: BJM / TJB
Date: 6/21/21
Time: 13:59

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 15.84

Actual Volume of Water Purged (gallons): 12.00

Did well purge dry? No ☐ Yes ☒

Did well recover? No ☐ Yes ☒

1/2 gallon

Recovery Time: Overnight

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & TJB Time: 12:48 Date: 6/22/21

SAMPLING DATA

Sample Appearance

Color: Slight Haze Sediment: Fines Present

Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.28</u>	Sp. Conductivity (umhos/cm)	<u>2189.0</u>
Temperature (F)	<u>51.6</u>	Eh-Redox Potential (mV)	<u>138.0</u>
Turbidity (NTUs)	<u>11.1</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type):

12 bottles Analytical

3-Voc's @ 14:26

Samples Delivered to: _____

Time: 16:33

Date: 6/22/21

COMMENTS:

Bottle labeled GW-2 - re-labeled field

Voc water cloudy / turbid



FIELD SAMPLING DATA SHEET

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Cloudy

SAMPLE LOCATION: MW-3
JOB #: 268.027.021
Temperature: 35.0

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	<u>8.14</u>
Measured Well Depth (feet)*:	<u>27.40</u>
Well Casing Diameter (inches):	<u>2</u>
Calculated Volume in Well Casing (gallons):	<u>3.03</u>

*depth from measuring point

Measuring Point: Top of Riser
Measured by: BJM
Date: 6/21/21
Time: 14:15

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): 9.25

Actual Volume of Water Purged (gallons): 3.5

Did well purge dry? No ☐ Yes ☒ 1/4 Bailer
Did well recover? No ☐ Yes ☒ Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☒ Non-dedicated ☐

Sampled by: BJM & Time: 13:03 Date: 6/22/21

SAMPLING DATA

Sample Appearance

Color: cloudy white Sediment: Fines Present
Odor: Faint leachate

Field Measured Parameters

pH (Standard Units)	<u>6.94</u>	Sp. Conductivity (umhos/cm)	<u>1449.0</u>
Temperature (F)	<u>53.8</u>	Eh-Redox Potential (mV)	<u>-10.0</u>
Turbidity (NTUs)	<u>33.2</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type):

12 Bottle Baseline

3 VOC's @ 14:24 on 6/21/21

Samples Delivered to: _____ Time: 16:33 Date: 6/22/21

COMMENTS:

VOC's - water was very turbid

**FIELD SAMPLING DATA SHEET**

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Sunny
SAMPLE TYPE: Groundwater ☐
Sediment ☐

SAMPLE LOCATION: SW-1
JOB #: 268.027.021
Temperature: 80°A
Surface Water ☒ Other (specify): _____
Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*: _____
Measured Well Depth (feet)*: _____
Well Casing Diameter (inches): _____
Calculated Volume in Well Casing (gallons): _____

*depth from measuring point

Measuring Point: _____
Measured by: BJM/ GJY
Date: _____
Time: _____

PURGING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): _____

Actual Volume of Water Purged (gallons): _____

Did well purge dry? No ☐ Yes ☐

Did well recover? No ☐ Yes ☐

Recovery Time: _____

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Non-dedicated ☐

Sampled by: BJM & TJB Time: 10:33 Date: 6/21/21

SAMPLING DATA

Sample Appearance

Color: clear Sediment: None

Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.46</u>	Sp. Conductivity (umhos/cm)	<u>420.9</u>
Temperature (F)	<u>69.6</u>	Eh-Redox Potential (mV)	<u>37.0</u>
Turbidity (NTUs)	<u>2.24</u>	Dissolved Oxygen (mg/L)	<u>5.7</u>

Samples Collected (Number/Type):

12 Bottles Borehole

Samples Delivered to: _____ Time: 16:40 Date: 6/21/21

COMMENTS:

**FIELD SAMPLING DATA SHEET**

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Sunny

SAMPLE LOCATION: SW-2
JOB #: 268.027.021
Temperature: 80°F

SAMPLE TYPE: Groundwater ☐ Surface Water ☒ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*: _____
Measured Well Depth (feet)*: _____
Well Casing Diameter (inches): _____
Calculated Volume in Well Casing (gallons): _____

*depth from measuring point

Measuring Point: _____
Measured by: BJM/ GJY
Date: _____
Time: _____

PURGING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): _____

Actual Volume of Water Purged (gallons): _____

Did well purge dry? No ☐ Yes ☐

Did well recover? No ☐ Yes ☐

Recovery Time: _____

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Non-dedicated ☐

Sampled by: BJM & Time: 10:48 Date: 6/21/21

SAMPLING DATA

Sample Appearance

Color: Clear Sediment: Trace fines

Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.37</u>	Sp. Conductivity (umhos/cm)	<u>400.5</u> <u>403.5</u>
Temperature (F)	<u>65.8</u>	Eh-Redox Potential (mV)	<u>96.0</u>
Turbidity (NTUs)	<u>3.09</u>	Dissolved Oxygen (mg/L)	<u>4.90</u>

Samples Collected (Number/Type):

1L Bottle Baseline

Samples Delivered to: _____ Time: 10:40 Date: 6/21/21

COMMENTS:

**FIELD SAMPLING DATA SHEET**

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Sunny

SAMPLE LOCATION: SW-4
JOB #: 268.027.021
Temperature: 80°F

SAMPLE TYPE: Groundwater ☐ Surface Water ☒ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*: _____
Measured Well Depth (feet)*: _____
Well Casing Diameter (inches): _____
Calculated Volume in Well Casing (gallons): _____

*depth from measuring point

Measuring Point: _____
Measured by: BJM/ GJY
Date: _____
Time: _____

PURGING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): _____

Actual Volume of Water Purged (gallons): _____

Did well purge dry? No ☐ Yes ☐

Did well recover? No ☐ Yes ☐

Recovery Time: _____

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Non-dedicated ☐

Sampled by: BJM & Time: 11:13 Date: 6/21/21

SAMPLING DATA

Sample Appearance

Color: clear - slight hue Sediment: Fine brown

Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.77</u>	Sp. Conductivity (umhos/cm)	<u>441.2</u>
Temperature (F)	<u>65.0</u>	Eh-Redox Potential (mV)	<u>114</u>
Turbidity (NTUs)	<u>8.49</u>	Dissolved Oxygen (mg/L)	<u>8.1</u>

Samples Collected (Number/Type): 12 Bottle Baseline

Samples Delivered to: _____ Time: 16:40 Date: 6/21/21

COMMENTS:

**FIELD SAMPLING DATA SHEET**

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Sunny

SAMPLE LOCATION: SW-7
JOB #: 268.027.021
Temperature: 80°F

SAMPLE TYPE: Groundwater ☐ Surface Water ☒ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*: _____
Measured Well Depth (feet)*: _____
Well Casing Diameter (inches): _____
Calculated Volume in Well Casing (gallons): _____

*depth from measuring point

Measuring Point: _____
Measured by: BJM/ GJY
Date: _____
Time: _____

PURGING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): _____

Actual Volume of Water Purged (gallons): _____

Did well purge dry? No ☐ Yes ☐
Did well recover? No ☐ Yes ☐

Recovery Time: _____

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Non-dedicated ☐

Sampled by: BJM & Time: 11:22 Date: 6/21/21

SAMPLING DATA

Sample Appearance

Color: Slight Itane Sediment: Trace Fine
Odor: None

Field Measured Parameters

pH (Standard Units)	<u>7.64</u>	Sp. Conductivity (umhos/cm)	<u>505.6</u>
Temperature (F)	<u>63.2</u>	Eh-Redox Potential (mV)	<u>127.0</u>
Turbidity (NTUs)	<u>6.74</u>	Dissolved Oxygen (mg/L)	<u>5.3</u>

Samples Collected (Number/Type): 12 bottle baseline

Samples Delivered to: _____ Time: 16:40 Date: 6/21/21

COMMENTS:



FIELD SAMPLING DATA SHEET

SITE: Lindley South
CLIENT: Steuben County
Weather Conditions: Sunny

SAMPLE LOCATION: L-3
JOB #: 268.027.021
Temperature: 80°F

SAMPLE TYPE: Groundwater ☐ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☒

WATER LEVEL DATA

Static Water Level (feet)*: _____
Measured Well Depth (feet)*: _____
Well Casing Diameter (inches): _____
Calculated Volume in Well Casing (gallons): _____

*depth from measuring point

Measuring Point: _____
Measured by: BJM/ GJY
Date: _____
Time: _____

PURGING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Non-dedicated ☐

Calculated Volume Of Water To Be Purged (gallons): _____

Actual Volume of Water Purged (gallons): _____

Did well purge dry? No ☐ Yes ☐

Did well recover? No ☐ Yes ☐

Recovery Time: _____

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Bladder Pump ☐ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Non-dedicated ☐ Use/boab ☒

Sampled by: BJM & TJB Time: 11:58 Date: 6/2/12

SAMPLING DATA

Sample Appearance

Color: Slight haze Sediment: Trace Fines

Odor: leachate

Field Measured Parameters

pH (Standard Units)	<u>6.72</u>	Sp. Conductivity (umhos/cm)	<u>1852.0</u>
Temperature (F)	<u>76.0</u>	Eh-Redox Potential (mV)	<u>-64.0</u>
Turbidity (NTUs)	<u>2.57</u>	Dissolved Oxygen (mg/L)	<u>-</u>

Samples Collected (Number/Type): _____

Samples Delivered to: _____ Time: 16:40 Date: 6/2/12

COMMENTS:

Barton & Loguidice

Calibration Record

Project No: Lindley South

Date: 6-22-21

Calibrated By: JB

Time: 0948

pH Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
pH 4:	<u>4.00</u>	(+/- 1.0 pH, pH 3.0 - 5.0)
pH 7:	<u>7.00</u>	(+/- 1.5 pH, pH 5.5 - 8.5)
pH 10:	<u>10.01</u>	(+/- 1.0 pH, pH 9.0 - 11.0)

Sp. Conductivity

Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	<u>7000</u>	(+/- 1.0 % Error)

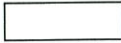
ORP Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
		Myron 6p ORP calibration is calculated by pH and SPC values

Turbidimeter Model: LaMotte 2020we

Standard Solution	Calibration Reading	Acceptable Range
0.0	<u>Blank</u>	Blank 0.0 NTU
1.0	<u>1.01</u>	(0.5-1.5 NTU)
10.0	<u>9.97</u>	(8-12 NTU)

Dissolved Oxygen Meter Model: YSI EcoSense

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%			(+/- 5.0% Error, 95-105%)

Comments ORP cal'd w/pH

Barton & Loguidice

Calibration Record

Project No: Lindley South

Date: 6-21-21

Calibrated By: TJB

Time: 10:18

pH Instrument Model:

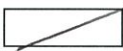
Standard Solution	Calibration Reading	Acceptable Range
pH 4:	<u>4.00</u>	(+/- 1.0 pH, pH 3.0 - 5.0)
pH 7:	<u>7.00</u>	(+/- 1.5 pH, pH 5.5 - 8.5)
pH 10:	<u>10.01</u>	(+/- 1.0 pH, pH 9.0 - 11.0)

Sp. Conductivity

Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	<u>6995</u>	(+/- 1.0 % Error)

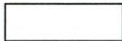
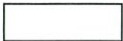
ORP Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
		Myron 6p ORP calibration is calculated by pH and SPC values

Turbidimeter Model: LaMotte 2020we

Standard Solution	Calibration Reading	Acceptable Range
0.0	<u>Blank</u>	Blank 0.0 NTU
1.0	<u>1.0</u>	(0.5-1.5 NTU)
10.0	<u>10.0</u>	(8-12 NTU)

Dissolved Oxygen Meter Model: YSI EcoSense

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%			(+/- 5.0% Error, 95-105%)

Comments ORP cal'd w/pH



Calibration Certificate

rev 8/9/11

Work Order No.: SE-091248

Date of Service: 06/18/21

Order Time: 7:36:28 AM

Unit Under Test: YSI Pro 20 DO Meter, 20m

Asset No.: FA00011

Technician: Brooke Derkowski

Initials: BDM

Serial No: 11J102041

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Air Saturated Water		1
Sodium Sulfite/ Zero DO Standard	Lot No. C473638, No exp date	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Landfill Inspection Report

Location: Lindale LF
 Client: Steuers County
 Job Number: 208-027-021
 Inspector(s): BJM / TJB
 Date / Time: 6/22/21
 Weather / Temp: cloudy 55°F wind

Site Security

Item	YES	NO	N/A	Comments
Is the gate to the landfill closed?	☒	☐	☐	
Is the gate locked and secure?	☒	☐	☐	
Is the perimeter fencing (if any) in good condition?	☒	☐	☐	<u>Fence or fence out should spring back</u>

Monitoring Wells

Item	YES	NO	N/A	Comments
Are the wells flagged, identified, and painted?	☒	☐	☐	
Are all of the wells locked?	☒	☐	☐	
Are the wells in good condition?	☒	☐	☐	

Gas Vents / Flares

Item	YES	NO	N/A	Comments
Are the vents / flares intact and in proper working condition?	☒	☐	☐	<u>3 vents require maintenance - see site map</u>
Are the vent openings unobstructed?	☐	☐	☐	

Landfill Cap

Item	YES	NO	N/A	Comments
Is the vegetation in good condition?	☒	☐	☐	
Does the vegetation cover the entire landfill?	☒	☐	☐	
Is mowing required?	☒	☐	☐	<u>Remove all woody veg from fence and gas vents</u>
Is there evidence of stressed vegetation or bare ground?	☐	☒	☐	
Is there evidence of animal burrowing or other damaging activity?	☐	☒	☐	
Are there any cracks or settlement of the landfill cap?	☐	☒	☐	
Is there any other evidence of damage to the landfill cap?	☐	☒	☐	

General

Item	YES	NO	N/A	Comments
Is there any evidence of staining or leachates seeps on or around the landfill?	☐	☒	☐	
Are the drainage structures in good condition?	☐	☒	☐	<u>East Drainage Ditch requires woody veg to be removed</u>
Is there any erosion or buildup of silt present in drainage structures?	☐	☒	☐	
Are the site access roads in good condition?	☒	☐	☐	
Is the maintenance building in good condition?	☐	☐	☒	
Is there any evidence of vandalism? If any please comment.	☐	☒	☐	

Notes

County must remove all trees from fence that have fallen or are
 (6) cut must. Veg from East Drainage Ditch cut woody veg
 from around gas vent - see site map & take photos for location

Steuben County - Lindley South Landfill

GAS SURVEY LOG

Logged by: GJY Date: 5/20/21
Instrument Model: MWH/2ae Bar. Pressure (in): 30.40
Temperature (F): 60.5 Sunny Wind Velocity (mph): 5-2 mph

Location	(% LEL)	Comments
GP-1	NIR	
GP-2		
GP-3		
GP-4		
GP-5		
GP-6		
GP-7		
GP-8		
GP-9		
GP-10		

NOTES:

NIR = No Instrument Response

Barton
& **Loguidice**



Calibration Certificate

rev 8/9/11

Work Order No.: SE-090178

Date of Service: 05/19/21

Order Time: 9:08:36 AM

Unit Under Test: RAE MultiRAE %Methane (FA02648) and Oxygen

Asset No.: FA00161 Technician Matt Cribbin

Serial No: MBB3Z037NA

Initials: 

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Four Gas Mix for RAE	Lot No. KCA-X05n179cp440024-1 Exp. 11/02/22	1
50% Methane & 35% Carbon Dioxide in N2	Lot No.304-402060911-1 Exp. 3/15/2025	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

Appendix B



July 21, 2021

Service Request No:R2106220

Mr. Darik Jordan
Barton & Loguidice, PC
11 Centre Park
Suite 203
Rochester, NY 14614

Laboratory Results for: Lindley South Landfill - Baseline

Dear Mr.Jordan,

Enclosed are the results of the sample(s) submitted to our laboratory June 22, 2021
For your reference, these analyses have been assigned our service request number **R2106220**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Rich Bills

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Received: 06/22/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Seventeen water samples were received for analysis at ALS Environmental on 06/22/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, : The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, : The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, : The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, : The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by 

Date 07/20/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-2S VOA	Lab ID: R2106220-001

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.56	J	0.20	1.0	ug/L	8260C
Chloroethane	1.3		0.23	1.0	ug/L	8260C
Methyl tert-Butyl Ether	0.50	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-2S	Lab ID: R2106220-002

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	577			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.571			0.050	mg/L	350.1
Carbon, Total Organic (TOC)	8.9			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	19.7			5.0	mg/L	410.4
Chloride	103			4.0	mg/L	300.0
Color	7.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	541			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	1.11			0.20	mg/L	351.2
pH of Color Analysis	6.98				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	791			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	34.2			2.0	mg/L	300.0

CLIENT ID: MW-2D	Lab ID: R2106220-004

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	351			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.051			0.050	mg/L	350.1
Carbon, Total Organic (TOC)	1.9			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	16.9			2.0	mg/L	300.0
Color	6.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	377			6.62	mg/L	SM 2340 B-1997 (2011)
pH of Color Analysis	7.52				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	615			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	171			4.0	mg/L	300.0

CLIENT ID: MW-1	Lab ID: R2106220-006

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	199			2.0	mg/L	SM 2320 B-1997 (2011)
Chloride	9.3			2.0	mg/L	300.0
Color	8.0			1.0	ColorUnits	SM 2120 B-2001 (2011)

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1	Lab ID: R2106220-006

Analyte	Results	Flag	MDL	MRL	Units	Method
Hardness, Total as CaCO ₃	220			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	1.2			1.0	mg/L	300.0
pH of Color Analysis	7.73				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	233			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	10.2			2.0	mg/L	300.0

CLIENT ID: MW-4	Lab ID: R2106220-008

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	311			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.077			0.050	mg/L	350.1
Carbon, Total Organic (TOC)	4.1			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	7.5			5.0	mg/L	410.4
Color	12.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	308			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.50			0.20	mg/L	351.2
pH of Color Analysis	6.83				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	333			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	6.8			2.0	mg/L	300.0

CLIENT ID: Dupe-X VOA	Lab ID: R2106220-009

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.58	J	0.20	1.0	ug/L	8260C
Benzene	0.24	J	0.20	1.0	ug/L	8260C
Chloroethane	1.4		0.23	1.0	ug/L	8260C
Methyl tert-Butyl Ether	0.46	J	0.20	1.0	ug/L	8260C

CLIENT ID: Dupe-X	Lab ID: R2106220-010

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	578			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.584			0.050	mg/L	350.1
Biochemical Oxygen Demand (BOD)	2.1			2.0	mg/L	SM 5210 B-2001 (2011)
Carbon, Total Organic (TOC)	8.8			2.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	20.8			5.0	mg/L	410.4
Chloride	104			4.0	mg/L	300.0
Color	9.0			1.0	ColorUnits	SM 2120 B-2001 (2011)

SAMPLE DETECTION SUMMARY

CLIENT ID: Dupe-X	Lab ID: R2106220-010

Analyte	Results	Flag	MDL	MRL	Units	Method
Hardness, Total as CaCO ₃	534			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	1.39			0.20	mg/L	351.2
pH of Color Analysis	7.04				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	804			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	33.1			2.0	mg/L	300.0

CLIENT ID: GW-1	Lab ID: R2106220-012

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	258			2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	1.2			1.0	mg/L	SM 5310 C-2000 (2011)
Color	5.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	235			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	1.1			1.0	mg/L	300.0
Nitrogen, Total Kjeldahl (TKN)	0.22			0.20	mg/L	351.2
pH of Color Analysis	7.75				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	287			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	12.9			2.0	mg/L	300.0

CLIENT ID: GW-4	Lab ID: R2106220-014

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	334			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.086			0.050	mg/L	350.1
Carbon, Total Organic (TOC)	1.4			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	4.9			2.0	mg/L	300.0
Color	6.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	1230			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.38			0.20	mg/L	351.2
pH of Color Analysis	7.30				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	1880			11	mg/L	SM 2540 C-1997 (2011)
Sulfate	1070			40	mg/L	300.0

CLIENT ID: MW-3	Lab ID: R2106220-016

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	609			2.0	mg/L	SM 2320 B-1997 (2011)

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-3		Lab ID: R2106220-016				
Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	0.483			0.050	mg/L	350.1
Biochemical Oxygen Demand (BOD)	3.4			2.0	mg/L	SM 5210 B-2001 (2011)
Bromide	1.5			1.0	mg/L	300.0
Carbon, Total Organic (TOC)	5.9			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	13.6			5.0	mg/L	410.4
Chloride	153			4.0	mg/L	300.0
Color	13.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO3	739			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.81			0.20	mg/L	351.2
pH of Color Analysis	6.84				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	818			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	12.7			2.0	mg/L	300.0



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline

Service Request:R2106220

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2106220-001	MW-2S VOA	6/21/2021	1224
R2106220-002	MW-2S	6/22/2021	1049
R2106220-003	MW-2D VOA	6/21/2021	1302
R2106220-004	MW-2D	6/22/2021	1102
R2106220-005	MW-1 VOA	6/21/2021	1247
R2106220-006	MW-1	6/22/2021	1138
R2106220-007	MW-4 VOA	6/21/2021	1327
R2106220-008	MW-4	6/22/2021	1214
R2106220-009	Dupe-X VOA	6/21/2021	
R2106220-010	Dupe-X	6/22/2021	
R2106220-011	GW-1 VOA	6/21/2021	1350
R2106220-012	GW-1	6/22/2021	1229
R2106220-013	GW-4 VOA	6/21/2021	1426
R2106220-014	GW-4	6/22/2021	1248
R2106220-015	MW-3 VOA	6/21/2021	1424
R2106220-016	MW-3	6/22/2021	1303
R2106220-017	Trip Blank	6/22/2021	1424



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

001

T062164

Project Name: Lindley South Landfill Baseline	
Project Number:	Report To: Darik Jordan
Company / Address: Barton & Loguidice, PC 11 Centre Park Suite 203 Rochester NY, 14614	
Phone #: 585-325-7190	FAX #: 315-451-0052
Sampler Signature: <i>Brim J. M. Grant</i>	Sampler Printed Name: Brim J. M. Grant

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

- ___ I. Results Only
 X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
 ___ III. Results + QC and Calibration Summaries
 X IV. Data Validation Report with Raw Data

EData ___ Yes ___ No

Invoice Information

P.O.#

Bill To: *Seneca County*

Relinquished By: <i>Brim J. M. Grant</i>	Received By: <i>Darik Jordan</i>	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature <i>Brim J. M. Grant</i>	Signature <i>Darik Jordan</i>	Signature	Signature	Signature	Signature
Printed Name B + L	Printed Name Darik Jordan	Printed Name	Printed Name	Printed Name	Printed Name
Firm 6/22/21 16:33	Firm ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 6/22/21/1633	Date/Time	Date/Time	Date/Time	Date/Time

R2106220

5

Barton & Loguidice, PC
Lindley South Landfill - Baseline



Cooler Receipt and Preservation Check Form

R2106220

5

Barton & Loguidice, PC
Lindley South Landfill - BaselineProject/Client BTL Folder Number _____Cooler received on 6/22/21 by: SW COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u> N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 6/22/21 Time: 1640 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	0.1	2.5	0.1				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-02 by SW on 6/22/21 at 1640
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 6/22/21 Time: 2226 by: SW

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO NA
13. Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized Tedlar® Bags Inflated NA

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12	<u>223419</u>	NaOH	✓		<u>214749</u>					
≤2		HNO ₃	✓		<u>1126092</u>					
<2		H ₂ SO ₄	✓		<u>K121-25</u>					
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	✓		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 746626-C27H5, 2596, 04921-2A40, 80521-05, 21-03-03

Explain all Discrepancies/ Other Comments:

3 vials; Trip Blank

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SW

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Internal Chain of Custody Report

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106220-001.01	8260C	6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1240	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
R2106220-001.02		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-001.03		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-002.01	350.1,351.2,410.4	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106220-002.02	6010C,6010C	6/22/2021	2156	SMO / DWARD	
		6/24/2021	1448	In Lab / NMANSEN	
		6/24/2021	1631	R-A01 / NMANSEN	
R2106220-002.03	Kelada-01	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1417	RT000747 / GLAFORCE	
R2106220-002.04	300.0,300.0,7196A,300.0,300.0,SM 2540 C-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1512	R-017 / GLAFORCE	
		6/23/2021	1517	RT000496 / GLAFORCE	
		7/8/2021	0037	R-002 / DWARD	
R2106220-002.05	SM 2320 B-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1510	R-014 / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106220-002.06	SM 2320 B-1997(2011)	6/23/2021	1515	RT000347 / GLAFORCE	
	SM 5210 B-2001(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1640	RT000341 / GLAFORCE	
		6/23/2021	1642	R-002 / GLAFORCE	
R2106220-002.07	SM 2120 B-2001(2011)	6/22/2021	2156	SMO / DWARD	
R2106220-002.08	7470A	6/22/2021	2156	SMO / DWARD	
		7/1/2021	1041	In Lab / BDIAMOND	
		7/1/2021	1258	R-A01 / BDIAMOND	
R2106220-002.09	9066,SM 5310 C-2000(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1418	RT000747 / GLAFORCE	
R2106220-003.01	8260C	6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1240	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
R2106220-003.02		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-003.03		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-004.01	351.2,410.4,350.1	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	

Internal Chain of Custody Report

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106220-004.02	6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C	6/22/2021	2156	SMO / DWARD	
		6/24/2021	1448	In Lab / NMANSEN	
		6/24/2021	1631	R-A01 / NMANSEN	
R2106220-004.03	Kelada-01	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1417	RT000747 / GLAFORCE	
R2106220-004.04	300.0,7196A,300.0,300.0,300.0,SM 2540 C-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1512	R-017 / GLAFORCE	
		6/23/2021	1517	RT000496 / GLAFORCE	
		7/8/2021	0037	R-002 / DWARD	
R2106220-004.05	SM 2320 B-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1516	RT000347 / GLAFORCE	
R2106220-004.06	SM 5210 B-2001(2011)	6/22/2021	2156	SMO / DWARD	
		6/24/2021	1314	R-002 / GLAFORCE	
		6/24/2021	1319	RT000464 / GLAFORCE	
R2106220-004.07	SM 2120 B-2001(2011)	6/22/2021	2156	SMO / DWARD	
R2106220-004.08	7470A	6/22/2021	2156	SMO / DWARD	
		7/1/2021	1041	In Lab / BDAMOND	
		7/1/2021	1258	R-A01 / BDAMOND	
R2106220-004.09	9066,SM 5310 C-2000(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1418	RT000747 / GLAFORCE	
R2106220-005.01					

Internal Chain of Custody Report

Service Request: R2106220[illegible]

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106220-006.06	SM 5210 B-2001(2011)				
		6/22/2021	2156	SMO / DWARD	
		6/24/2021	1314	R-002 / GLAFORCE	
		6/24/2021	1319	RT000464 / GLAFORCE	
R2106220-006.07	SM 2120 B-2001(2011)				
		6/22/2021	2156	SMO / DWARD	
R2106220-006.08	7470A				
		6/22/2021	2156	SMO / DWARD	
		7/1/2021	1041	In Lab / BDIAMOND	
		7/1/2021	1259	R-A01 / BDIAMOND	
R2106220-006.09	SM 5310 C-2000(2011),9066				
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1418	RT000747 / GLAFORCE	
R2106220-007.01	8260C				
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1241	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
R2106220-007.02					
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-007.03					
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-008.01	410.4,350.1,351.2				
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106220-008.02					

Internal Chain of Custody Report

Service Request: R2106220[illegible]

Internal Chain of Custody Report

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C	6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1241	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
		R2106220-009.02			
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		R2106220-009.03			
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		R2106220-010.01			
		410.4,350.1,351.2			
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
		R2106220-010.02			
	6010C,6010C	6/22/2021	2156	SMO / DWARD	
		6/24/2021	1448	In Lab / NMANSEN	
		6/24/2021	1631	R-A01 / NMANSEN	
		R2106220-010.03			
		Kelada-01			
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1417	RT000747 / GLAFORCE	
R2106220-010.04					
	7196A,300.0,300.0,300.0,300.0,SM 2540 C-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1512	R-017 / GLAFORCE	
		6/23/2021	1517	RT000496 / GLAFORCE	
		7/8/2021	0037	R-002 / DWARD	
		R2106220-010.05			
	SM 2320 B-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1515	RT000347 / GLAFORCE	

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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106220-010.06	SM 5210 B-2001(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1639	RT000142 / GLAFORCE	
		6/23/2021	1642	R-002 / GLAFORCE	
R2106220-010.07	SM 2120 B-2001(2011)	6/22/2021	2156	SMO / DWARD	
R2106220-010.08	7470A	6/22/2021	2156	SMO / DWARD	
		7/1/2021	1041	In Lab / BDIAMOND	
		7/1/2021	1258	R-A01 / BDIAMOND	
R2106220-010.09	9066,SM 5310 C-2000(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1418	RT000747 / GLAFORCE	
R2106220-011.01	8260C	6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1241	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
R2106220-011.02		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-011.03		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-012.01	351.2,410.4,350.1	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106220-012.02					

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106220[illegible]

Internal Chain of Custody Report

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C	6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1241	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
R2106220-013.02					
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-013.03					
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-014.01					
	410.4,350.1,351.2	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106220-014.02					
	6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C	6/22/2021	2156	SMO / DWARD	
		6/24/2021	1448	In Lab / NMANSEN	
		6/24/2021	1632	R-A01 / NMANSEN	
R2106220-014.03					
	Kelada-01	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1417	RT000747 / GLAFORCE	
R2106220-014.04					
	7196A,300.0,300.0,SM 2540 C-1997(2011),300.0,300.0	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1512	R-017 / GLAFORCE	
		6/23/2021	1517	RT000496 / GLAFORCE	
		7/8/2021	0037	R-002 / DWARD	
R2106220-014.05					
	SM 2320 B-1997(2011)	6/22/2021	2156	SMO / DWARD	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1516	RT000347 / GLAFORCE	

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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106220-014.06					
	SM 5210 B-2001(2011)				
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1641	RT000341 / GLAFORCE	
		6/23/2021	1642	R-002 / GLAFORCE	
R2106220-014.07					
	SM 2120 B-2001(2011)				
		6/22/2021	2156	SMO / DWARD	
R2106220-014.08					
	7470A				
		6/22/2021	2156	SMO / DWARD	
		7/1/2021	1041	In Lab / BDIAMOND	
		7/1/2021	1259	R-A01 / BDIAMOND	
R2106220-014.09					
	9066,SM 5310 C-2000(2011)				
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1412	R-015 / GLAFORCE	
		6/23/2021	1418	RT000747 / GLAFORCE	
R2106220-015.01					
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1241	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
R2106220-015.02					
	8260C				
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		7/1/2021	1225	In Lab / KRUEST	
		7/1/2021	1539	R-001-S12 / KRUEST	
R2106220-015.03					
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
R2106220-016.01					
	351.2,350.1,410.4				
		6/22/2021	2156	SMO / DWARD	
		6/23/2021	1647	R-016 / GLAFORCE	
		6/23/2021	1653	RT000467 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106220-016.02					

Internal Chain of Custody Report

Service Request: R2106220[illegible]

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106220

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C	6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		6/30/2021	1240	In Lab / KRUEST	
		6/30/2021	1312	R-001-S12 / KRUEST	
		R2106220-017.02			
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	
		R2106220-017.03			
		6/22/2021	2156	SMO / DWARD	
		6/22/2021	2204	R-001 / DWARD	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: MW-2S VOA
Lab Code: R2106220-001
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUET

Sample Name: MW-2S
Lab Code: R2106220-002
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method

Extracted/Digested By

Analyzed By

300.0		KWONG
350.1		SMEDBURY
351.2	GNITAJOUPI	GNITAJOUPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN
7196A		SMEDBURY
7470A	BDIAMOND	KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-2D VOA
Lab Code: R2106220-003
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUET

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: MW-2D
Lab Code: R2106220-004
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN
7196A	BDIAMOND	SMEDBURY
7470A		KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-1 VOA
Lab Code: R2106220-005
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-1
Lab Code: R2106220-006
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: MW-1
Lab Code: R2106220-006
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
7196A		SMEDBURY
7470A	BDIAMOND	KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-4 VOA
Lab Code: R2106220-007
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-4
Lab Code: R2106220-008
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KWONG
350.1		SMEDBURY
351.2	GNITAJOUPPI	GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN
7196A		SMEDBURY
7470A	BDIAMOND	KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: MW-4
Lab Code: R2106220-008
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method

SM 2320 B-1997(2011)
SM 2540 C-1997(2011)
SM 5210 B-2001(2011)
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

KAWONG
CLOI
NSMITH
SMEDBURY

Sample Name: Dupe-X VOA
Lab Code: R2106220-009
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method

8260C

Extracted/Digested By

Analyzed By

KRUEST

Sample Name: Dupe-X
Lab Code: R2106220-010
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method

300.0
350.1
351.2
410.4
6010C
7196A
7470A
9066
Kelada-01
SM 2120 B-2001(2011)
SM 2320 B-1997(2011)
SM 2540 C-1997(2011)
SM 5210 B-2001(2011)
SM 5310 C-2000(2011)

Extracted/Digested By

GNITAJOUPPI
NMANSEN

BDIAMOND

Analyzed By

KWONG
SMEDBURY
GNITAJOUPPI
SMEDBURY
KMCLAEN
SMEDBURY
KMCLAEN
CWOODS
CWOODS
KWONG
KAWONG
CLOI
NSMITH
SMEDBURY

ALS Group USA, Corp.

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Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: GW-1 VOA
Lab Code: R2106220-011
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: GW-1
Lab Code: R2106220-012
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method**Extracted/Digested By****Analyzed By**

300.0		KWONG
350.1		SMEDBURY
351.2	GNITAJOUPPI	GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN
7196A		SMEDBURY
7470A	BDIAMOND	KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: GW-4 VOA
Lab Code: R2106220-013
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: GW-4
Lab Code: R2106220-014
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN
7196A	BDIAMOND	SMEDBURY
7470A		KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-3 VOA
Lab Code: R2106220-015
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-3
Lab Code: R2106220-016
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN

ALS Group USA, Corp.
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Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106220

Sample Name: MW-3
Lab Code: R2106220-016
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
7196A		SMEDBURY
7470A	BDIAMOND	KMCLAEN
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		KWONG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: Trip Blank
Lab Code: R2106220-017
Sample Matrix: Water

Date Collected: 06/22/21
Date Received: 06/22/21

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 12:24
Date Received: 06/22/21 16:33

Sample Name: MW-2S VOA
Lab Code: R2106220-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,1-Dichloroethane (1,1-DCA)	0.56 J	1.0	0.20	1	06/30/21 17:38	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 17:38	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 17:38	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 17:38	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 17:38	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 17:38	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 17:38	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 17:38	
Acetone	5.0 U	5.0	5.0	1	06/30/21 17:38	
Acrylonitrile	10 U	10	0.90	1	06/30/21 17:38	
Benzene	1.0 U	1.0	0.20	1	06/30/21 17:38	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 17:38	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 17:38	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 17:38	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 17:38	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 17:38	
Chloroethane	1.3	1.0	0.23	1	06/30/21 17:38	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 17:38	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 17:38	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 17:38	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 17:38	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 17:38	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 17:38	
Methyl tert-Butyl Ether	0.50 J	1.0	0.20	1	06/30/21 17:38	
Styrene	1.0 U	1.0	0.20	1	06/30/21 17:38	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 17:38	
Toluene	1.0 U	1.0	0.20	1	06/30/21 17:38	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 17:38	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 17:38	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 17:38	

ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 12:24
Date Received: 06/22/21 16:33

Sample Name: MW-2S VOA
Lab Code: R2106220-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 17:38	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 17:38	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 17:38	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 17:38	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 17:38	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 17:38	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 17:38	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 17:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/30/21 17:38	
Dibromofluoromethane	95	80 - 116	06/30/21 17:38	
Toluene-d8	98	87 - 121	06/30/21 17:38	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 13:02
Date Received: 06/22/21 16:33

Sample Name: MW-2D VOA
Lab Code: R2106220-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 19:06	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 19:06	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 19:06	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 19:06	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 19:06	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 19:06	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 19:06	
Acetone	5.0 U	5.0	5.0	1	06/30/21 19:06	
Acrylonitrile	10 U	10	0.90	1	06/30/21 19:06	
Benzene	1.0 U	1.0	0.20	1	06/30/21 19:06	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 19:06	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 19:06	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 19:06	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 19:06	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 19:06	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 19:06	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 19:06	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 19:06	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 19:06	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 19:06	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 19:06	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 19:06	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 19:06	
Styrene	1.0 U	1.0	0.20	1	06/30/21 19:06	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 19:06	
Toluene	1.0 U	1.0	0.20	1	06/30/21 19:06	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 19:06	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 19:06	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 19:06	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 13:02
Date Received: 06/22/21 16:33

Sample Name: MW-2D VOA
Lab Code: R2106220-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 19:06	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 19:06	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 19:06	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 19:06	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 19:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 19:06	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 19:06	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 19:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/30/21 19:06	
Dibromofluoromethane	96	80 - 116	06/30/21 19:06	
Toluene-d8	98	87 - 121	06/30/21 19:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 12:47
Date Received: 06/22/21 16:33

Sample Name: MW-1 VOA
Lab Code: R2106220-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 17:17	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 17:17	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 17:17	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 17:17	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 17:17	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 17:17	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 17:17	
Acetone	5.0 U	5.0	5.0	1	06/30/21 17:17	
Acrylonitrile	10 U	10	0.90	1	06/30/21 17:17	
Benzene	1.0 U	1.0	0.20	1	06/30/21 17:17	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 17:17	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 17:17	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 17:17	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 17:17	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 17:17	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 17:17	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 17:17	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 17:17	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 17:17	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 17:17	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 17:17	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 17:17	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 17:17	
Styrene	1.0 U	1.0	0.20	1	06/30/21 17:17	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 17:17	
Toluene	1.0 U	1.0	0.20	1	06/30/21 17:17	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 17:17	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 17:17	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 17:17	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 12:47
Date Received: 06/22/21 16:33

Sample Name: MW-1 VOA
Lab Code: R2106220-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 17:17	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 17:17	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 17:17	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 17:17	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 17:17	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 17:17	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 17:17	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 17:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/30/21 17:17	
Dibromofluoromethane	95	80 - 116	06/30/21 17:17	
Toluene-d8	98	87 - 121	06/30/21 17:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 13:27
Date Received: 06/22/21 16:33

Sample Name: MW-4 VOA
Lab Code: R2106220-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 19:27	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 19:27	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 19:27	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 19:27	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 19:27	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 19:27	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 19:27	
Acetone	5.0 U	5.0	5.0	1	06/30/21 19:27	
Acrylonitrile	10 U	10	0.90	1	06/30/21 19:27	
Benzene	1.0 U	1.0	0.20	1	06/30/21 19:27	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 19:27	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 19:27	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 19:27	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 19:27	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 19:27	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 19:27	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 19:27	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 19:27	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 19:27	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 19:27	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 19:27	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 19:27	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 19:27	
Styrene	1.0 U	1.0	0.20	1	06/30/21 19:27	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 19:27	
Toluene	1.0 U	1.0	0.20	1	06/30/21 19:27	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 19:27	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 19:27	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 19:27	

ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 13:27
Date Received: 06/22/21 16:33

Sample Name: MW-4 VOA
Lab Code: R2106220-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 19:27	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 19:27	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 19:27	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 19:27	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 19:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 19:27	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 19:27	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 19:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/30/21 19:27	
Dibromofluoromethane	96	80 - 116	06/30/21 19:27	
Toluene-d8	98	87 - 121	06/30/21 19:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21
Date Received: 06/22/21 16:33

Sample Name: Dupe-X VOA
Lab Code: R2106220-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,1-Dichloroethane (1,1-DCA)	0.58 J	1.0	0.20	1	06/30/21 18:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 18:00	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 18:00	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 18:00	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:00	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 18:00	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 18:00	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 18:00	
Acetone	5.0 U	5.0	5.0	1	06/30/21 18:00	
Acrylonitrile	10 U	10	0.90	1	06/30/21 18:00	
Benzene	0.24 J	1.0	0.20	1	06/30/21 18:00	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 18:00	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 18:00	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 18:00	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 18:00	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:00	
Chloroethane	1.4	1.0	0.23	1	06/30/21 18:00	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 18:00	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 18:00	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 18:00	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 18:00	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 18:00	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 18:00	
Methyl tert-Butyl Ether	0.46 J	1.0	0.20	1	06/30/21 18:00	
Styrene	1.0 U	1.0	0.20	1	06/30/21 18:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 18:00	
Toluene	1.0 U	1.0	0.20	1	06/30/21 18:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 18:00	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 18:00	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 18:00	

ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21
Date Received: 06/22/21 16:33

Sample Name: Dupe-X VOA
Lab Code: R2106220-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 18:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 18:00	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 18:00	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 18:00	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 18:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 18:00	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 18:00	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 18:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/30/21 18:00	
Dibromofluoromethane	101	80 - 116	06/30/21 18:00	
Toluene-d8	101	87 - 121	06/30/21 18:00	

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dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 13:50
Date Received: 06/22/21 16:33

Sample Name: GW-1 VOA
Lab Code: R2106220-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 18:22	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 18:22	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 18:22	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:22	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 18:22	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 18:22	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 18:22	
Acetone	5.0 U	5.0	5.0	1	06/30/21 18:22	
Acrylonitrile	10 U	10	0.90	1	06/30/21 18:22	
Benzene	1.0 U	1.0	0.20	1	06/30/21 18:22	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 18:22	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 18:22	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 18:22	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 18:22	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:22	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 18:22	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 18:22	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 18:22	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 18:22	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 18:22	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 18:22	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 18:22	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 18:22	
Styrene	1.0 U	1.0	0.20	1	06/30/21 18:22	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 18:22	
Toluene	1.0 U	1.0	0.20	1	06/30/21 18:22	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 18:22	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 18:22	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 18:22	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 13:50
Date Received: 06/22/21 16:33

Sample Name: GW-1 VOA
Lab Code: R2106220-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 18:22	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 18:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 18:22	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 18:22	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 18:22	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 18:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 18:22	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 18:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/30/21 18:22	
Dibromofluoromethane	99	80 - 116	06/30/21 18:22	
Toluene-d8	102	87 - 121	06/30/21 18:22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 14:26
Date Received: 06/22/21 16:33

Sample Name: GW-4 VOA
Lab Code: R2106220-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 18:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 18:44	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 18:44	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:44	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 18:44	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 18:44	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 18:44	
Acetone	5.0 U	5.0	5.0	1	06/30/21 18:44	
Acrylonitrile	10 U	10	0.90	1	06/30/21 18:44	
Benzene	1.0 U	1.0	0.20	1	06/30/21 18:44	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 18:44	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 18:44	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 18:44	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 18:44	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 18:44	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 18:44	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 18:44	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 18:44	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 18:44	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 18:44	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 18:44	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 18:44	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 18:44	
Styrene	1.0 U	1.0	0.20	1	06/30/21 18:44	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 18:44	
Toluene	1.0 U	1.0	0.20	1	06/30/21 18:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 18:44	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 18:44	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 18:44	

ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 14:26
Date Received: 06/22/21 16:33

Sample Name: GW-4 VOA
Lab Code: R2106220-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 18:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 18:44	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 18:44	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 18:44	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 18:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 18:44	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 18:44	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 18:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/30/21 18:44	
Dibromofluoromethane	95	80 - 116	06/30/21 18:44	
Toluene-d8	98	87 - 121	06/30/21 18:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 14:24
Date Received: 06/22/21 16:33

Sample Name: MW-3 VOA
Lab Code: R2106220-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	07/01/21 12:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	07/01/21 12:57	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	07/01/21 12:57	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	07/01/21 12:57	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	07/01/21 12:57	
2-Hexanone	5.0 U	5.0	0.20	1	07/01/21 12:57	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	07/01/21 12:57	
Acetone	5.0 U	5.0	5.0	1	07/01/21 12:57	
Acrylonitrile	10 U	10	0.90	1	07/01/21 12:57	
Benzene	1.0 U	1.0	0.20	1	07/01/21 12:57	
Bromochloromethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
Bromodichloromethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
Bromoform	1.0 U	1.0	0.25	1	07/01/21 12:57	
Bromomethane	1.0 U	1.0	0.70	1	07/01/21 12:57	
Carbon Disulfide	1.0 U	1.0	0.42	1	07/01/21 12:57	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	07/01/21 12:57	
Chlorobenzene	1.0 U	1.0	0.20	1	07/01/21 12:57	
Chloroethane	1.0 U	1.0	0.23	1	07/01/21 12:57	
Chloroform	1.0 U	1.0	0.24	1	07/01/21 12:57	
Chloromethane	1.0 U	1.0	0.28	1	07/01/21 12:57	
Dibromochloromethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
Dibromomethane	1.0 U	1.0	0.20	1	07/01/21 12:57	
Methylene Chloride	1.0 U	1.0	0.65	1	07/01/21 12:57	
Ethylbenzene	1.0 U	1.0	0.20	1	07/01/21 12:57	
Iodomethane	5.0 U	5.0	4.3	1	07/01/21 12:57	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	07/01/21 12:57	
Styrene	1.0 U	1.0	0.20	1	07/01/21 12:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	07/01/21 12:57	
Toluene	1.0 U	1.0	0.20	1	07/01/21 12:57	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	07/01/21 12:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	07/01/21 12:57	
Vinyl Acetate	2.0 U	2.0	1.1	1	07/01/21 12:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21 14:24
Date Received: 06/22/21 16:33

Sample Name: MW-3 VOA
Lab Code: R2106220-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	07/01/21 12:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	07/01/21 12:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	07/01/21 12:57	
m,p-Xylenes	2.0 U	2.0	0.20	1	07/01/21 12:57	
o-Xylene	1.0 U	1.0	0.20	1	07/01/21 12:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	07/01/21 12:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	07/01/21 12:57	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	07/01/21 12:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/01/21 12:57	
Dibromofluoromethane	100	80 - 116	07/01/21 12:57	
Toluene-d8	101	87 - 121	07/01/21 12:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 14:24
Date Received: 06/22/21 16:33

Sample Name: Trip Blank
Lab Code: R2106220-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 16:55	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 16:55	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 16:55	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 16:55	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 16:55	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 16:55	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 16:55	
Acetone	5.0 U	5.0	5.0	1	06/30/21 16:55	
Acrylonitrile	10 U	10	0.90	1	06/30/21 16:55	
Benzene	1.0 U	1.0	0.20	1	06/30/21 16:55	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 16:55	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 16:55	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 16:55	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 16:55	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 16:55	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 16:55	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 16:55	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 16:55	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 16:55	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 16:55	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 16:55	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 16:55	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 16:55	
Styrene	1.0 U	1.0	0.20	1	06/30/21 16:55	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 16:55	
Toluene	1.0 U	1.0	0.20	1	06/30/21 16:55	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 16:55	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 16:55	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 16:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 14:24
Date Received: 06/22/21 16:33

Sample Name: Trip Blank
Lab Code: R2106220-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 16:55	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 16:55	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 16:55	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 16:55	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 16:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 16:55	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 16:55	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 16:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/30/21 16:55	
Dibromofluoromethane	101	80 - 116	06/30/21 16:55	
Toluene-d8	102	87 - 121	06/30/21 16:55	



Metals

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

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METALS

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2S

Contract: R2106220

Lab Code: Case No.: SAS No.: SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-002

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	100	U	N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	181			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	11300			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	142000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	272			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	45500			P
7439-96-5	Manganese	1960			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2400			P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	75300			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Contract: R2106220

Lab Code: Case No.: SAS No.: SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-004

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	189		N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	32.2			P
7440-39-3	Barium	175			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	96200			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	693			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	33300			P
7439-96-5	Manganese	845			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2580			P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	74600			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-006

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5300		N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	58.8			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	58500			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	4760			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	18100			P
7439-96-5	Manganese	54.4			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2470			P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	6520			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-4

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-008

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	100	U	N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	51.4			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	98900			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	221			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	235			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2000	U		P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	3660			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

Dupe-X

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-010

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	100	U	N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	179			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	11200			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	140000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	270			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	44600			P
7439-96-5	Manganese	1930			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2580			P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	74400			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

GW-1

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-012

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	100	U	N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	41.4			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	64300			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	18100			P
7439-96-5	Manganese	10.0	U		P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2000	U		P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	13600			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

GW-4

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Matrix (soil/water): WATER Lab Sample ID: R2106220-014

Level (low/med): LOW Date Received: 6/22/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1320		N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	20.0	U		P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	330000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	2400			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	99600			P
7439-96-5	Manganese	2330			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	4030			P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	105000			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET
SAMPLE NO.
MW-3
Contract: R2106220
Lab Code: _____ **Case No.:** _____ **SAS No.:** _____ **SDG NO.:** MW-2S
Matrix (soil/water): WATER **Lab Sample ID:** R2106220-016
Level (low/med): LOW **Date Received:** 6/22/2021
Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2790		N	P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	202			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	1650			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	165000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	10900			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	79300			P
7439-96-5	Manganese	2810			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	3930			P
7782-49-2	Selenium	10.0	U	*	P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	31300			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	338			P

Color Before: Colorless **Clarity Before:** Clear **Texture:** _____

Color After: Colorless **Clarity After:** Clear **Artifacts:** _____

Comments: _____



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 10:49
Date Received: 06/22/21 16:33

Sample Name: MW-2S
Lab Code: R2106220-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	577	mg/L	2.0	1	06/30/21 12:32	NA	
Ammonia as Nitrogen, undistilled	350.1	0.571	mg/L	0.050	1	07/03/21 15:09	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 09:32	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 04:55	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.9	mg/L	1.0	1	07/09/21 05:16	NA	
Chemical Oxygen Demand, Total	410.4	19.7	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	103	mg/L	4.0	20	06/29/21 19:10	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:02	NA	
Color	SM 2120 B-2001(2011)	7.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/26/21 19:05	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	541	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/23/21 04:55	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.11	mg/L	0.20	1	07/07/21 12:11	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	6.98	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 22:49	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	791	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	34.2	mg/L	2.0	10	06/23/21 04:55	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 11:02
Date Received: 06/22/21 16:33

Sample Name: MW-2D
Lab Code: R2106220-004

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	351	mg/L	2.0	1	06/30/21 12:39	NA	
Ammonia as Nitrogen, undistilled	350.1	0.051	mg/L	0.050	1	07/03/21 15:10	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 09:33	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:01	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.9	mg/L	1.0	1	07/09/21 06:19	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	16.9	mg/L	2.0	10	06/23/21 05:01	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:03	NA	
Color	SM 2120 B-2001(2011)	6.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 18:05	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	377	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:01	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	07/07/21 12:13	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.52	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 23:01	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	615	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	171	mg/L	4.0	20	06/29/21 19:16	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 11:38
Date Received: 06/22/21 16:33

Sample Name: MW-1
Lab Code: R2106220-006

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	199	mg/L	2.0	1	06/30/21 12:46	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:16	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 09:31	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:08	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	07/09/21 06:40	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	9.3	mg/L	2.0	10	06/23/21 05:08	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:03	NA	
Color	SM 2120 B-2001(2011)	8.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/26/21 19:16	NA	
Hardness, Total as CaCO ₃	SM 2340 B-1997(2011)	220	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.2	mg/L	1.0	10	06/23/21 05:08	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	07/07/21 12:14	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.73	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 22:05	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	233	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	10.2	mg/L	2.0	10	06/23/21 05:08	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 12:14
Date Received: 06/22/21 16:33

Sample Name: MW-4
Lab Code: R2106220-008

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	311	mg/L	2.0	1	06/30/21 13:01	NA	
Ammonia as Nitrogen, undistilled	350.1	0.077	mg/L	0.050	1	07/03/21 15:20	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 09:34	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:34	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.1	mg/L	1.0	1	07/09/21 07:42	NA	
Chemical Oxygen Demand, Total	410.4	7.5	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	2.0 U	mg/L	2.0	10	06/23/21 05:34	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:06	NA	
Color	SM 2120 B-2001(2011)	12.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 18:33	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	308	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.50	mg/L	0.20	1	07/07/21 12:17	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	6.83	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 23:05	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	333	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	6.8	mg/L	2.0	10	06/23/21 05:34	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21 16:33

Sample Name: Dupe-X
Lab Code: R2106220-010

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	578	mg/L	2.0	1	06/30/21 13:10	NA	
Ammonia as Nitrogen, undistilled	350.1	0.584	mg/L	0.050	1	07/03/21 15:21	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.1	mg/L	2.0	1	06/23/21 07:23	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:40	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.8	mg/L	2.0	2	07/09/21 14:04	NA	
Chemical Oxygen Demand, Total	410.4	20.8	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	104	mg/L	4.0	20	06/29/21 19:23	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:06	NA	
Color	SM 2120 B-2001(2011)	9.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 18:37	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	534	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:40	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.39	mg/L	0.20	1	07/07/21 12:18	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.04	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 23:09	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	804	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	33.1	mg/L	2.0	10	06/23/21 05:40	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 12:29
Date Received: 06/22/21 16:33

Sample Name: GW-1
Lab Code: R2106220-012

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	258	mg/L	2.0	1	06/30/21 13:17	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:24	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 09:36	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 05:47	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.2	mg/L	1.0	1	07/09/21 08:24	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	2.0 U	mg/L	2.0	10	06/23/21 05:47	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:07	NA	
Color	SM 2120 B-2001(2011)	5.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 18:41	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	235	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.1	mg/L	1.0	10	06/23/21 05:47	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.22	mg/L	0.20	1	07/07/21 12:18	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.75	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/28/21 16:51	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	287	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	12.9	mg/L	2.0	10	06/23/21 05:47	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 12:48
Date Received: 06/22/21 16:33

Sample Name: GW-4
Lab Code: R2106220-014

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	334	mg/L	2.0	1	06/30/21 13:38	NA	
Ammonia as Nitrogen, undistilled	350.1	0.086	mg/L	0.050	1	07/03/21 15:34	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 09:37	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/23/21 06:07	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.4	mg/L	1.0	1	07/09/21 09:27	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	4.9	mg/L	2.0	10	06/23/21 06:07	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:07	NA	
Color	SM 2120 B-2001(2011)	6.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 18:45	NA	
Hardness, Total as CaCO ₃	SM 2340 B-1997(2011)	1230	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/23/21 06:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.38	mg/L	0.20	1	07/07/21 12:19	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.30	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/28/21 16:55	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1880	mg/L	11	1	06/28/21 16:00	NA	
Sulfate	300.0	1070	mg/L	40	200	06/29/21 19:49	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21 13:03
Date Received: 06/22/21 16:33

Sample Name: MW-3
Lab Code: R2106220-016

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	609	mg/L	2.0	1	06/30/21 13:47	NA	
Ammonia as Nitrogen, undistilled	350.1	0.483	mg/L	0.050	1	07/03/21 15:35	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	3.4	mg/L	2.0	1	06/23/21 09:29	NA	
Bromide	300.0	1.5	mg/L	1.0	10	06/23/21 06:13	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.9	mg/L	1.0	1	07/09/21 09:48	NA	
Chemical Oxygen Demand, Total	410.4	13.6	mg/L	5.0	1	07/07/21 20:00	NA	
Chloride	300.0	153	mg/L	4.0	20	06/29/21 20:09	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:09	NA	
Color	SM 2120 B-2001(2011)	13.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 18:49	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	739	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/23/21 06:13	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.81	mg/L	0.20	1	07/07/21 12:20	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	6.84	pH Units	-	1	06/23/21 06:15	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/28/21 17:11	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	818	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	12.7	mg/L	2.0	10	06/23/21 06:13	NA	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-2S VOA	R2106220-001	94	95	98
MW-2D VOA	R2106220-003	93	96	98
MW-1 VOA	R2106220-005	91	95	98
MW-4 VOA	R2106220-007	93	96	98
Dupe-X VOA	R2106220-009	97	101	101
GW-1 VOA	R2106220-011	97	99	102
GW-4 VOA	R2106220-013	94	95	98
MW-3 VOA	R2106220-015	95	100	101
Trip Blank	R2106220-017	97	101	102
Method Blank	RQ2107606-04	95	99	100
Method Blank	RQ2107697-06	93	98	100
Lab Control Sample	RQ2107606-03	98	101	99
Lab Control Sample	RQ2107697-03	99	101	102
MW-1 VOA MS	RQ2107606-05	99	99	100
MW-1 VOA DMS	RQ2107606-06	101	101	100

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21
Date Received: 06/22/21
Date Analyzed: 06/30/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-1 VOA
Lab Code: R2106220-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2107606-05					Duplicate Matrix Spike RQ2107606-06				
	Sample Result	Result	Spike Amount	% Rec		Result	Spike Amount	% Rec	% Rec Limits	RPD
1,1,1,2-Tetrachloroethane	1.0 U	48.5	50.0	97		52.9	50.0	106	68-146	9
1,1,1-Trichloroethane (TCA)	1.0 U	49.8	50.0	100		51.1	50.0	102	74-127	3
1,1,2,2-Tetrachloroethane	1.0 U	42.8	50.0	86		44.5	50.0	89	72-122	4
1,1,2-Trichloroethane	1.0 U	45.2	50.0	90		47.8	50.0	96	82-121	6
1,1-Dichloroethane (1,1-DCA)	1.0 U	46.4	50.0	93		47.5	50.0	95	74-132	2
1,1-Dichloroethene (1,1-DCE)	1.0 U	63.4	50.0	127 *		63.0	50.0	126 *	71-118	<1
1,2,3-Trichloropropane	1.0 U	40.6	50.0	81		42.1	50.0	84	75-122	4
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	35.3	50.0	71		37.1	50.0	74	37-150	5
1,2-Dibromoethane	1.0 U	43.5	50.0	87		45.5	50.0	91	67-127	5
1,2-Dichlorobenzene	1.0 U	44.5	50.0	89		46.9	50.0	94	77-120	5
1,2-Dichloroethane	1.0 U	45.3	50.0	91		47.3	50.0	95	68-130	4
1,2-Dichloropropane	1.0 U	44.4	50.0	89		47.2	50.0	94	79-124	6
1,4-Dichlorobenzene	1.0 U	43.2	50.0	86		47.4	50.0	95	82-120	9
2-Butanone (MEK)	5.0 U	38.5	50.0	77		40.5	50.0	81	61-137	5
2-Hexanone	5.0 U	42.3	50.0	85		43.2	50.0	86	56-132	2
4-Methyl-2-pentanone	5.0 U	45.3	50.0	91		47.2	50.0	94	60-141	4
Acetone	5.0 U	40.3	50.0	81		40.6	50.0	81	35-183	<1
Acrylonitrile	10 U	214	250	86		222	250	89	69-131	4
Benzene	1.0 U	46.7	50.0	93		49.7	50.0	99	76-129	6
Bromochloromethane	1.0 U	44.0	50.0	88		44.6	50.0	89	80-122	1
Bromodichloromethane	1.0 U	43.2	50.0	86		46.5	50.0	93	78-133	7
Bromoform	1.0 U	37.5	50.0	75		40.9	50.0	82	58-133	9
Bromomethane	1.0 U	48.3	50.0	97		45.9	50.0	92	10-184	5
Carbon Disulfide	1.0 U	51.0	50.0	102		50.4	50.0	101	59-140	1
Carbon Tetrachloride	1.0 U	45.2	50.0	90		49.7	50.0	99	65-135	9
Chlorobenzene	1.0 U	45.0	50.0	90		47.5	50.0	95	76-125	6
Chloroethane	1.0 U	48.5	50.0	97		47.5	50.0	95	48-146	2
Chloroform	1.0 U	46.1	50.0	92		47.1	50.0	94	75-130	2
Chloromethane	1.0 U	40.8	50.0	82		42.1	50.0	84	55-160	3
Dibromochloromethane	1.0 U	40.2	50.0	80		42.9	50.0	86	72-128	7
Dibromomethane	1.0 U	43.3	50.0	87		47.6	50.0	95	77-119	9
Methylene Chloride	1.0 U	43.4	50.0	87		43.7	50.0	87	73-122	<1
Ethylbenzene	1.0 U	49.1	50.0	98		49.4	50.0	99	72-134	<1

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/21/21
Date Received: 06/22/21
Date Analyzed: 06/30/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-1 VOA
Lab Code: R2106220-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2107606-05				Duplicate Matrix Spike RQ2107606-06					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Iodomethane	5.0 U	54.5	50.0	109	55.0	50.0	110	18-160	<1	30
Methyl tert-Butyl Ether	1.0 U	43.6	50.0	87	44.5	50.0	89	75-119	2	30
Styrene	1.0 U	45.0	50.0	90	47.0	50.0	94	74-136	4	30
Tetrachloroethene (PCE)	1.0 U	47.7	50.0	95	51.1	50.0	102	72-125	7	30
Toluene	1.0 U	47.9	50.0	96	51.0	50.0	102	79-119	6	30
Trichloroethene (TCE)	1.0 U	45.3	50.0	91	47.1	50.0	94	74-122	4	30
Trichlorofluoromethane (CFC 11)	1.0 U	48.7	50.0	97	49.5	50.0	99	71-136	2	30
Vinyl Acetate	2.0 U	53.3	50.0	107	56.1	50.0	112	48-172	5	30
Vinyl Chloride	1.0 U	41.5	50.0	83	42.7	50.0	85	74-159	3	30
cis-1,2-Dichloroethene	1.0 U	49.1	50.0	98	49.3	50.0	99	77-127	<1	30
cis-1,3-Dichloropropene	1.0 U	44.8	50.0	90	48.9	50.0	98	52-134	9	30
m,p-Xylenes	2.0 U	95.0	100	95	103	100	103	80-126	8	30
o-Xylene	1.0 U	46.5	50.0	93	47.6	50.0	95	79-123	2	30
trans-1,2-Dichloroethene	1.0 U	54.2	50.0	108	53.6	50.0	107	73-118	1	30
trans-1,3-Dichloropropene	1.0 U	43.3	50.0	87	46.3	50.0	93	71-133	7	30
trans-1,4-Dichloro-2-butene	1.0 U	32.6	50.0	65	34.7	50.0	69	27-155	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2107606-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/30/21 13:16	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/30/21 13:16	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/30/21 13:16	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/30/21 13:16	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/30/21 13:16	
2-Hexanone	5.0 U	5.0	0.20	1	06/30/21 13:16	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/30/21 13:16	
Acetone	5.0 U	5.0	5.0	1	06/30/21 13:16	
Acrylonitrile	10 U	10	0.90	1	06/30/21 13:16	
Benzene	1.0 U	1.0	0.20	1	06/30/21 13:16	
Bromochloromethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
Bromoform	1.0 U	1.0	0.25	1	06/30/21 13:16	
Bromomethane	1.0 U	1.0	0.70	1	06/30/21 13:16	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/30/21 13:16	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/30/21 13:16	
Chlorobenzene	1.0 U	1.0	0.20	1	06/30/21 13:16	
Chloroethane	1.0 U	1.0	0.23	1	06/30/21 13:16	
Chloroform	1.0 U	1.0	0.24	1	06/30/21 13:16	
Chloromethane	1.0 U	1.0	0.28	1	06/30/21 13:16	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
Dibromomethane	1.0 U	1.0	0.20	1	06/30/21 13:16	
Methylene Chloride	1.0 U	1.0	0.65	1	06/30/21 13:16	
Ethylbenzene	1.0 U	1.0	0.20	1	06/30/21 13:16	
Iodomethane	5.0 U	5.0	4.3	1	06/30/21 13:16	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/30/21 13:16	
Styrene	1.0 U	1.0	0.20	1	06/30/21 13:16	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/30/21 13:16	
Toluene	1.0 U	1.0	0.20	1	06/30/21 13:16	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/30/21 13:16	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/30/21 13:16	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/30/21 13:16	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2107606-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/30/21 13:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/30/21 13:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/30/21 13:16	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/30/21 13:16	
o-Xylene	1.0 U	1.0	0.20	1	06/30/21 13:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/30/21 13:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/30/21 13:16	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/30/21 13:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/30/21 13:16	
Dibromofluoromethane	99	80 - 116	06/30/21 13:16	
Toluene-d8	100	87 - 121	06/30/21 13:16	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2107697-06

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	07/01/21 12:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	07/01/21 12:35	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	07/01/21 12:35	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	07/01/21 12:35	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	07/01/21 12:35	
2-Hexanone	5.0 U	5.0	0.20	1	07/01/21 12:35	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	07/01/21 12:35	
Acetone	5.0 U	5.0	5.0	1	07/01/21 12:35	
Acrylonitrile	10 U	10	0.90	1	07/01/21 12:35	
Benzene	1.0 U	1.0	0.20	1	07/01/21 12:35	
Bromochloromethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
Bromodichloromethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
Bromoform	1.0 U	1.0	0.25	1	07/01/21 12:35	
Bromomethane	1.0 U	1.0	0.70	1	07/01/21 12:35	
Carbon Disulfide	1.0 U	1.0	0.42	1	07/01/21 12:35	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	07/01/21 12:35	
Chlorobenzene	1.0 U	1.0	0.20	1	07/01/21 12:35	
Chloroethane	1.0 U	1.0	0.23	1	07/01/21 12:35	
Chloroform	1.0 U	1.0	0.24	1	07/01/21 12:35	
Chloromethane	1.0 U	1.0	0.28	1	07/01/21 12:35	
Dibromochloromethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
Dibromomethane	1.0 U	1.0	0.20	1	07/01/21 12:35	
Methylene Chloride	1.0 U	1.0	0.65	1	07/01/21 12:35	
Ethylbenzene	1.0 U	1.0	0.20	1	07/01/21 12:35	
Iodomethane	5.0 U	5.0	4.3	1	07/01/21 12:35	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	07/01/21 12:35	
Styrene	1.0 U	1.0	0.20	1	07/01/21 12:35	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	07/01/21 12:35	
Toluene	1.0 U	1.0	0.20	1	07/01/21 12:35	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	07/01/21 12:35	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	07/01/21 12:35	
Vinyl Acetate	2.0 U	2.0	1.1	1	07/01/21 12:35	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2107697-06

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	07/01/21 12:35	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	07/01/21 12:35	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	07/01/21 12:35	
m,p-Xylenes	2.0 U	2.0	0.20	1	07/01/21 12:35	
o-Xylene	1.0 U	1.0	0.20	1	07/01/21 12:35	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	07/01/21 12:35	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	07/01/21 12:35	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	07/01/21 12:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/01/21 12:35	
Dibromofluoromethane	98	80 - 116	07/01/21 12:35	
Toluene-d8	100	87 - 121	07/01/21 12:35	

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 06/30/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107606-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	20.9	20.0	104	76-129
1,1,1-Trichloroethane (TCA)	8260C	20.3	20.0	101	75-125
1,1,2,2-Tetrachloroethane	8260C	18.1	20.0	90	78-126
1,1,2-Trichloroethane	8260C	18.6	20.0	93	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.0	20.0	95	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	26.0	20.0	130 *	71-118
1,2,3-Trichloropropane	8260C	17.3	20.0	86	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	14.9	20.0	74	55-136
1,2-Dibromoethane	8260C	18.1	20.0	90	82-127
1,2-Dichlorobenzene	8260C	18.7	20.0	94	80-119
1,2-Dichloroethane	8260C	19.7	20.0	99	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
1,4-Dichlorobenzene	8260C	19.0	20.0	95	79-119
2-Butanone (MEK)	8260C	16.0	20.0	80	61-137
2-Hexanone	8260C	17.0	20.0	85	63-124
4-Methyl-2-pentanone	8260C	18.0	20.0	90	66-124
Acetone	8260C	14.4	20.0	72	40-161
Acrylonitrile	8260C	89.4	100	89	71-130
Benzene	8260C	19.7	20.0	98	79-119
Bromochloromethane	8260C	17.8	20.0	89	81-126
Bromodichloromethane	8260C	18.7	20.0	94	81-123
Bromoform	8260C	17.7	20.0	88	65-146
Bromomethane	8260C	23.2	20.0	116	42-166
Carbon Disulfide	8260C	19.3	20.0	97	66-128
Carbon Tetrachloride	8260C	19.3	20.0	96	70-127
Chlorobenzene	8260C	18.9	20.0	95	80-121
Chloroethane	8260C	19.1	20.0	96	62-131
Chloroform	8260C	19.1	20.0	95	79-120
Chloromethane	8260C	17.5	20.0	87	65-135
Dibromochloromethane	8260C	17.0	20.0	85	72-128
Dibromomethane	8260C	18.5	20.0	93	80-118
Methylene Chloride	8260C	17.9	20.0	90	73-122
Ethylbenzene	8260C	20.2	20.0	101	76-120

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Superset Reference:21-0000594672 rev 00

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 06/30/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107606-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iodomethane	8260C	17.3	20.0	87	18-160
Methyl tert-Butyl Ether	8260C	18.4	20.0	92	75-118
Styrene	8260C	19.3	20.0	96	80-124
Tetrachloroethene (PCE)	8260C	21.2	20.0	106	72-125
Toluene	8260C	19.9	20.0	100	79-119
Trichloroethene (TCE)	8260C	19.9	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.0	20.0	105	71-136
Vinyl Acetate	8260C	21.9	20.0	110	52-174
Vinyl Chloride	8260C	17.4	20.0	87	74-159
cis-1,2-Dichloroethene	8260C	20.1	20.0	101	80-121
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	77-122
m,p-Xylenes	8260C	39.8	40.0	100	80-126
o-Xylene	8260C	19.0	20.0	95	79-123
trans-1,2-Dichloroethene	8260C	20.8	20.0	104	73-118
trans-1,3-Dichloropropene	8260C	18.7	20.0	94	71-133
trans-1,4-Dichloro-2-butene	8260C	14.8	20.0	74	39-137

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 07/01/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107697-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	20.5	20.0	102	76-129
1,1,1-Trichloroethane (TCA)	8260C	18.3	20.0	92	75-125
1,1,2,2-Tetrachloroethane	8260C	18.9	20.0	95	78-126
1,1,2-Trichloroethane	8260C	19.4	20.0	97	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.7	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.6	20.0	123 *	71-118
1,2,3-Trichloropropane	8260C	17.8	20.0	89	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	14.7	20.0	74	55-136
1,2-Dibromoethane	8260C	19.0	20.0	95	82-127
1,2-Dichlorobenzene	8260C	18.9	20.0	95	80-119
1,2-Dichloroethane	8260C	19.9	20.0	100	71-127
1,2-Dichloropropane	8260C	17.7	20.0	88	80-119
1,4-Dichlorobenzene	8260C	18.3	20.0	92	79-119
2-Butanone (MEK)	8260C	17.6	20.0	88	61-137
2-Hexanone	8260C	18.0	20.0	90	63-124
4-Methyl-2-pentanone	8260C	19.2	20.0	96	66-124
Acetone	8260C	16.7	20.0	83	40-161
Acrylonitrile	8260C	93.4	100	93	71-130
Benzene	8260C	18.6	20.0	93	79-119
Bromochloromethane	8260C	19.6	20.0	98	81-126
Bromodichloromethane	8260C	18.1	20.0	90	81-123
Bromoform	8260C	16.8	20.0	84	65-146
Bromomethane	8260C	24.7	20.0	124	42-166
Carbon Disulfide	8260C	22.9	20.0	115	66-128
Carbon Tetrachloride	8260C	16.5	20.0	83	70-127
Chlorobenzene	8260C	18.4	20.0	92	80-121
Chloroethane	8260C	19.3	20.0	96	62-131
Chloroform	8260C	19.0	20.0	95	79-120
Chloromethane	8260C	19.4	20.0	97	65-135
Dibromochloromethane	8260C	15.6	20.0	78	72-128
Dibromomethane	8260C	20.4	20.0	102	80-118
Methylene Chloride	8260C	17.1	20.0	86	73-122
Ethylbenzene	8260C	18.3	20.0	92	76-120

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Superset Reference:21-0000594672 rev 00

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 07/01/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107697-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iodomethane	8260C	19.2	20.0	96	18-160
Methyl tert-Butyl Ether	8260C	18.7	20.0	93	75-118
Styrene	8260C	18.2	20.0	91	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	72-125
Toluene	8260C	18.3	20.0	91	79-119
Trichloroethene (TCE)	8260C	18.0	20.0	90	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.3	20.0	96	71-136
Vinyl Acetate	8260C	24.4	20.0	122	52-174
Vinyl Chloride	8260C	18.2	20.0	91	74-159
cis-1,2-Dichloroethene	8260C	19.9	20.0	99	80-121
cis-1,3-Dichloropropene	8260C	19.0	20.0	95	77-122
m,p-Xylenes	8260C	36.1	40.0	90	80-126
o-Xylene	8260C	17.3	20.0	87	79-123
trans-1,2-Dichloroethene	8260C	20.5	20.0	103	73-118
trans-1,3-Dichloropropene	8260C	18.4	20.0	92	71-133
trans-1,4-Dichloro-2-butene	8260C	15.4	20.0	77	39-137



Metals

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METALS

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BLANKS

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L		Continuing Calibration Blank ug/L						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Aluminum	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Antimony	60.00	U	60.00	U	60.00	U	60.00	U	60.000	U	P
Arsenic	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Barium	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P
Beryllium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	U	P
Boron	200.00	U	200.00	U	200.00	U	200.00	U	200.000	U	P
Cadmium	5.00	U	5.00	U	5.00	U	5.00	U	5.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Calcium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Chromium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Cobalt	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Copper	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P
Iron	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Lead	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Magnesium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Manganese	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Nickel	40.00	U	40.00	U	40.00	U	40.00	U	40.000	U	P
Potassium	2000.00	U	2000.00	U	2000.00	U	2000.00	U	2000.000	U	P
Selenium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Silver	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Sodium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Thallium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Vanadium	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Zinc	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P

Comments:

METALS

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BLANKS

Contract: R2106220

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2S

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			100.00	U	100.00	U	100.00	U			P
Antimony			60.00	U	60.00	U	60.00	U			P
Arsenic			10.00	U	10.00	U	10.00	U			P
Barium			20.00	U	20.00	U	20.00	U			P
Beryllium			3.00	U	3.00	U	3.00	U			P
Boron			200.00	U	200.00	U	200.00	U			P
Cadmium			5.00	U	5.00	U	5.00	U			P
Mercury			0.200	U	0.200	U					CV
Calcium			1000.00	U	1000.00	U	1000.00	U			P
Chromium			10.00	U	10.00	U	10.00	U			P
Cobalt			50.00	U	50.00	U	50.00	U			P
Copper			20.00	U	20.00	U	20.00	U			P
Iron			100.00	U	100.00	U	100.00	U			P
Lead			50.00	U	50.00	U	50.00	U			P
Magnesium			1000.00	U	1000.00	U	1000.00	U			P
Manganese			10.00	U	10.00	U	10.00	U			P
Nickel			40.00	U	40.00	U	40.00	U			P
Potassium			2000.00	U	2000.00	U	2000.00	U			P
Selenium			10.00	U	10.00	U	10.00	U			P
Silver			10.00	U	10.00	U	10.00	U			P
Sodium			1000.00	U	1000.00	U	1000.00	U			P
Thallium			10.00	U	10.00	U	10.00	U			P
Vanadium			50.00	U	50.00	U	50.00	U			P
Zinc			20.00	U	20.00	U	20.00	U			P

Comments:

METALS

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BLANKSContract: R2106220Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-2SPreparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	2	3						
Boron	200.00 U	200.00 U	200.00 U	200.00 U						P
Calcium	1000.00 U	1000.00 U	1000.00 U	1000.00 U						P

Comments:

METALS

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BLANKS

Contract: R2106220

Lab Code: Case No.: SAS No.: SDG NO.: MW-2S

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	2	3						
Boron		200.00	200.00	200.00	U	U	U			P
Calcium		1000.00	1000.00	1000.00	U	U	U			P

Comments:

METALS

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SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-1S

Contract: R2106220

Lab Code: Case No.: SAS No.: SDG NO.: MW-2S

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	6160.00	5300.00	2000.0	43	N	P
Antimony	75 - 125	495.00	60.00	500.0	99		P
Arsenic	75 - 125	41.10	10.00	40.0	103		P
Barium	75 - 125	2080.00	58.80	2000.0	101		P
Beryllium	75 - 125	51.10	3.00	50.0	102		P
Boron	75 - 125	1020.00	200.00	1000.0	102		P
Cadmium	75 - 125	51.30	5.00	50.0	103		P
Mercury	75 - 125	0.989	0.200	1.00	99		CV
Calcium		61500.00	58500.00	2000.0	150		P
Chromium	75 - 125	211.00	10.00	200.0	106		P
Cobalt	75 - 125	520.00	50.00	500.0	104		P
Copper	75 - 125	246.00	20.00	250.0	98		P
Iron		5540.00	4760.00	1000.0	78		P
Lead	75 - 125	511.00	50.00	500.0	102		P
Magnesium		20400.00	18100.00	2000.0	115		P
Manganese	75 - 125	560.00	54.40	500.0	101		P
Nickel	75 - 125	516.00	40.00	500.0	103		P
Potassium	75 - 125	21600.00	2470.00	20000.0	96		P
Selenium	75 - 125	1250.00	10.00	1010.0	124		P
Silver	75 - 125	50.50	10.00	50.0	101		P
Sodium	75 - 125	26900.00	6520.00	20000.0	102		P
Thallium	75 - 125	2000.00	10.00	2000.0	100		P
Vanadium	75 - 125	512.00	50.00	500.0	102		P
Zinc	75 - 125	541.00	20.00	500.0	108		P

Comments:

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-1SD

Contract: R2106220

Lab Code: Case No.: SAS No.: SDG NO.: MW-2S

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	7540.00	5300.00	2000.0	112		P
Antimony	75 - 125	489.00	60.00	500.0	98		P
Arsenic	75 - 125	34.60	10.00	40.0	86		P
Barium	75 - 125	2080.00	58.80	2000.0	101		P
Beryllium	75 - 125	49.70	3.00	50.0	99		P
Boron	75 - 125	998.00	200.00	1000.0	100		P
Cadmium	75 - 125	49.30	5.00	50.0	99		P
Mercury	75 - 125	0.979	0.200	1.00	98		CV
Calcium		60000.00	58500.00	2000.0	75		P
Chromium	75 - 125	208.00	10.00	200.0	104		P
Cobalt	75 - 125	508.00	50.00	500.0	102		P
Copper	75 - 125	246.00	20.00	250.0	98		P
Iron		5530.00	4760.00	1000.0	77		P
Lead	75 - 125	498.00	50.00	500.0	100		P
Magnesium		19900.00	18100.00	2000.0	90		P
Manganese	75 - 125	549.00	54.40	500.0	99		P
Nickel	75 - 125	502.00	40.00	500.0	100		P
Potassium	75 - 125	21900.00	2470.00	20000.0	97		P
Selenium	75 - 125	996.00	10.00	1010.0	99		P
Silver	75 - 125	48.70	10.00	50.0	97		P
Sodium	75 - 125	26700.00	6520.00	20000.0	101		P
Thallium	75 - 125	1920.00	10.00	2000.0	96		P
Vanadium	75 - 125	510.00	50.00	500.0	102		P
Zinc	75 - 125	505.00	20.00	500.0	101		P

Comments:

METALS
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DUPLICATES

SAMPLE NO.

MW-1SD

Contract: R2106220

Lab Code: Case No.: SAS No.: SDG NO.: MW-2S

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6160.00		7540.00		20		P
Antimony		495.00		489.00		1		P
Arsenic		41.10		34.60		17		P
Barium		2080.00		2080.00		0		P
Beryllium		51.10		49.70		3		P
Boron		1020.00		998.00		2		P
Cadmium		51.30		49.30		4		P
Mercury		0.989		0.979		1		CV
Calcium		61500.00		60000.00		2		P
Chromium		211.00		208.00		1		P
Cobalt		520.00		508.00		2		P
Copper		246.00		246.00		0		P
Iron		5540.00		5530.00		0		P
Lead		511.00		498.00		3		P
Magnesium		20400.00		19900.00		2		P
Manganese		560.00		549.00		2		P
Nickel		516.00		502.00		3		P
Potassium		21600.00		21900.00		1		P
Selenium		1250.00		996.00		23	*	P
Silver		50.50		48.70		4		P
Sodium		26900.00		26700.00		1		P
Thallium		2000.00		1920.00		4		P
Vanadium		512.00		510.00		0		P
Zinc		541.00		505.00		7		P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: **R2106220**

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: **MW-2S**

Solid LCS Source: _____

Aqueous LCS Source: **CPI**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	2000	2010	100						
Antimony	500	491	98						
Arsenic	40	35	88						
Barium	2000	2070	104						
Beryllium	50	51	102						
Boron	1000	995	100						
Cadmium	50	51	102						
Mercury	1.000	0.973	97						
Calcium	2000	2060	103						
Chromium	200	206	103						
Cobalt	500	517	103						
Copper	250	252	101						
Iron	1000	1020	102						
Lead	500	512	102						
Magnesium	2000	1990	100						
Manganese	500	504	101						
Nickel	500	513	103						
Potassium	20000	19500	98						
Selenium	1010	987	98						
Silver	50	49	98						
Sodium	20000	19700	98						
Thallium	2000	1880	94						
Vanadium	500	505	101						
Zinc	500	508	102						

Comments: _____



General Chemistry

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R2106220-MB1

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/30/21 09:51	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 14:40	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 15:40	NA	
Bromide	300.0	0.10 U	mg/L	0.10	1	06/23/21 04:42	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	07/09/21 00:45	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	06/23/21 04:42	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/22/21 20:01	NA	
Color	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	06/23/21 06:15	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/26/21 15:46	NA	
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	06/23/21 04:42	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	07/07/21 12:03	07/06/21	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 20:29	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10 U	mg/L	10	1	06/28/21 16:00	NA	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/23/21 04:42	NA	

ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2106220-MB2

Service Request: R2106220
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:13	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	07/09/21 13:17	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/07/21 20:00	
Chloride	300.0	0.20 U	mg/L	0.20	1	06/29/21 16:59	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/26/21 18:36	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/28/21 14:35	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/29/21 16:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2106220-MB3

Service Request: R2106220
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	300.0	0.20 U	mg/L	0.20	1	06/29/21 19:36	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 17:25	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/28/21 16:27	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/29/21 19:36	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/26/21 - 07/09/21

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: MW-2S **Units:** mg/L
Lab Code: R2106220-002 **Basis:** NA

Matrix Spike
R2106220-002MS

Duplicate Matrix Spike
R2106220-002DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand, Total	410.4	19.7	44.5	25.0	99	44.7	25.0	100	90-110	<1	20
Phenolics, Total Recoverable	9066	0.0050 U	0.0396	0.0400	99	0.0400	0.0400	100	49-137	<1	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.9	18.9	10.0	100	19.4	10.0	105	48-135	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Superset Reference: 21-0000594672 rev 00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/30/21

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name: MW-2D
Lab Code: R2106220-004
Analysis Method: Kelada-01

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2106220-004MS		Result	Duplicate Matrix Spike R2106220-004DMS		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Cyanide, Total	0.0050 U	0.0984	0.100	98	0.0997	0.100	100	90-110	1	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/22/21 - 07/09/21

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-1 **Units:** mg/L
Lab Code: R2106220-006 **Basis:** NA

Matrix Spike
R2106220-006MS

Duplicate Matrix Spike
R2106220-006DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ammonia as Nitrogen, undistilled	350.1	0.050 U	0.501	0.500	100	0.503	0.500	101	90-110	<1	20
Bromide	300.0	1.0 U	9.2	10.0	92	9.2	10.0	92	90-110	<1	20
Chloride	300.0	9.3	27.9	20.0	93	27.9	20.0	93	90-110	<1	20
Cyanide, Total	Kelada-01	0.0050 U	0.106	0.100	106	0.105	0.100	105	90-110	<1	20
Chemical Oxygen Demand, Total	410.4	5.0 U	24.7	25.0	99	25.8	25.0	103	90-110	4	20
Chromium, Hexavalent	7196A	0.010 U	0.101	0.100	101	0.104	0.100	104	85-115	3	20
Nitrate as Nitrogen	300.0	1.2	10.8	10.0	96	10.8	10.0	96	90-110	<1	20
Phenolics, Total Recoverable	9066	0.0050 U	0.0392	0.0400	98	0.0399	0.0400	100	49-137	2	20
Sulfate	300.0	10.2	29.6	20.0	97	29.7	20.0	97	90-110	<1	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	2.66	2.50	106	2.62	2.50	105	90-110	2	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	10.9	10.0	109	10.8	10.0	108	48-135	1	20

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Superset Reference:21-0000594672 rev 00

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 07/9/21

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: Dupe-X
Lab Code: R2106220-010
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2106220-010MS			Duplicate Matrix Spike R2106220-010DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	8.8	29.9	20.0	106	30.4	20.0	108	48-135	2	20

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 07/3/21

Duplicate Matrix Spike Summary
Ammonia as Nitrogen, undistilled

Sample Name: GW-1
Lab Code: R2106220-012
Analysis Method: 350.1

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2106220-012MS			Duplicate Matrix Spike R2106220-012DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ammonia as Nitrogen, undistilled	0.050 U	0.512	0.500	102	0.513	0.500	103	90-110	<1	20

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Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/28/21 - 06/29/21

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: GW-4 **Units:** mg/L
Lab Code: R2106220-014 **Basis:** NA

Matrix Spike
R2106220-014MS

Duplicate Matrix Spike
R2106220-014DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Phenolics, Total Recoverable	9066	0.0050 U	0.0408	0.0400	102	0.0410	0.0400	102	49-137	<1	20
Sulfate	300.0	1070	1470	400	99	1470	400	99	90-110	<1	20

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Superset Reference:21-0000594672 rev 00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/28/21

Duplicate Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name: MW-3
Lab Code: R2106220-016
Analysis Method: 9066

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2106220-016MS			Duplicate Matrix Spike R2106220-016DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Phenolics, Total Recoverable	0.0050 U	0.0419	0.0400	105	0.0429	0.0400	107	49-137	2	20

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Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

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QA/QC Report

Client: Barton & Loguidice, DPC
Project Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/23/21 - 06/30/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-1
Lab Code: R2106220-006

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2106220-006DUP	Average	RPD	RPD Limit
				Result			
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	2.0	199	201	200	<1	20
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0	2.0 U	2.0 U	NC	NC	20
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	233	234	234	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Barton & Loguidice, DPC
Project Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220**Date Collected:** 06/22/21**Date Received:** 06/22/21**Date Analyzed:** 06/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-1
Lab Code: R2106220-006

Units: ColorUnits**Basis:** NA

				Duplicate Sample R2106220- 006DUP Result			
Analyte Name	Analysis Method	MRL	Sample Result		Average	RPD	RPD Limit
Color	SM 2120 B-2001(2011)	1.0	8.0	8.0	8.00	<1	5

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Barton & Loguidice, DPC
Project Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Collected: 06/22/21
Date Received: 06/22/21
Date Analyzed: 06/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-1
Lab Code: R2106220-006

Units: pH Units
Basis: NA

				Duplicate Sample R2106220- 006DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
pH of Color Analysis	SM 2120 B-2001(2011)	-	7.73	7.73	7.73	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 06/22/21 - 07/09/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2106220-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	19.2	20.0	96	80-120
Ammonia as Nitrogen, undistilled	350.1	0.481	0.500	96	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	188	198	95	85-115
Bromide	300.0	0.93	1.00	93	90-110
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.7	10.0	97	80-121
Chemical Oxygen Demand, Total	410.4	48.9	50.0	98	90-110
Chloride	300.0	1.90	2.00	95	90-110
Chromium, Hexavalent	7196A	0.101	0.100	101	80-120
Cyanide, Total	Kelada-01	0.0970	0.100	97	90-110
Nitrate as Nitrogen	300.0	0.98	1.00	98	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	2.57	2.50	103	90-110
Phenolics, Total Recoverable	9066	0.0380	0.0400	95	85-115
Sulfate	300.0	1.96	2.00	98	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 06/26/21 - 07/09/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2106220-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.494	0.500	99	90-110
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.26	10.0	93	80-121
Chemical Oxygen Demand, Total	410.4	50.0	50.0	100	90-110
Chloride	300.0	1.90	2.00	95	90-110
Cyanide, Total	Kelada-01	0.102	0.100	102	90-110
Phenolics, Total Recoverable	9066	0.0370	0.0400	92	85-115
Sulfate	300.0	1.93	2.00	96	90-110

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106220
Date Analyzed: 06/28/21 - 06/30/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R2106220-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	1.90	2.00	95	90-110
Cyanide, Total	Kelada-01	0.0968	0.100	97	90-110
Phenolics, Total Recoverable	9066	0.0392	0.0400	98	85-115
Sulfate	300.0	1.93	2.00	96	90-110



July 21, 2021

Service Request No:R2106170

Mr. Darik Jordan
Barton & Loguidice, PC
11 Centre Park
Suite 203
Rochester, NY 14614

Laboratory Results for: Lindley South Landfill - Baseline

Dear Mr.Jordan,

Enclosed are the results of the sample(s) submitted to our laboratory June 21, 2021
For your reference, these analyses have been assigned our service request number **R2106170**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Rich Bills

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Received: 06/21/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 06/21/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 7196A, R2106170-005: The Method Reporting Limit (MRL) was elevated due to color of sample.

Volatiles by GC/MS:

Method 8260C, 06/29/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/29/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by



Date

07/20/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: SW-1	Lab ID: R2106170-001

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	158			2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	4.3			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	11.2			5.0	mg/L	410.4
Chloride	17.6			2.0	mg/L	300.0
Color	18.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	184			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.33			0.20	mg/L	351.2
pH of Color Analysis	7.19				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	247			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	26.0			2.0	mg/L	300.0

CLIENT ID: SW-2	Lab ID: R2106170-002

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	151			2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	3.8			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	10.0			5.0	mg/L	410.4
Chloride	21.1			2.0	mg/L	300.0
Color	16.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	172			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.38			0.20	mg/L	351.2
pH of Color Analysis	7.22				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	235			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	24.4			2.0	mg/L	300.0

CLIENT ID: SW-4	Lab ID: R2106170-003

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	164			2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	3.5			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	8.1			5.0	mg/L	410.4
Chloride	32.3			2.0	mg/L	300.0
Color	12.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	182			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.30			0.20	mg/L	351.2

SAMPLE DETECTION SUMMARY

CLIENT ID: SW-4	Lab ID: R2106170-003

Analyte	Results	Flag	MDL	MRL	Units	Method
pH of Color Analysis	7.70				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	257			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	16.0			2.0	mg/L	300.0

CLIENT ID: SW-7	Lab ID: R2106170-004

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	174			2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	2.8			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	26.0			2.0	mg/L	300.0
Color	10.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	223			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.23			0.20	mg/L	351.2
pH of Color Analysis	7.44				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	302			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	63.9			2.0	mg/L	300.0

CLIENT ID: L-3	Lab ID: R2106170-005

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	789			6.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	25.8			1.0	mg/L	350.1
Biochemical Oxygen Demand (BOD)	4.7			2.0	mg/L	SM 5210 B-2001 (2011)
Carbon, Total Organic (TOC)	19.6			1.0	mg/L	SM 5310 C-2000 (2011)
Chemical Oxygen Demand, Total	46.1			5.0	mg/L	410.4
Chloride	129			8.0	mg/L	300.0
Color	16.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO ₃	597			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrogen, Total Kjeldahl (TKN)	30.5			2.0	mg/L	351.2
pH of Color Analysis	6.52				pH Units	SM 2120 B-2001 (2011)
Solids, Total Dissolved (TDS)	967			11	mg/L	SM 2540 C-1997 (2011)
1,2-Dichlorobenzene	0.21	J	0.20	1.0	ug/L	8260C
1,4-Dichlorobenzene	3.0		0.20	1.0	ug/L	8260C
Chlorobenzene	0.70	J	0.20	1.0	ug/L	8260C
Methyl tert-Butyl Ether	0.39	J	0.20	1.0	ug/L	8260C
m,p-Xylenes	1.2	J	0.20	2.0	ug/L	8260C

SAMPLE DETECTION SUMMARY**CLIENT ID: L-3****Lab ID: R2106170-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
o-Xylene	0.44	J	0.20	1.0	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline

Service Request:R2106170

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2106170-001	SW-1	6/21/2021	1033
R2106170-002	SW-2	6/21/2021	1048
R2106170-003	SW-4	6/21/2021	1113
R2106170-004	SW-7	6/21/2021	1122
R2106170-005	L-3	6/21/2021	1159
R2106170-006	Trip Blank	6/21/2021	



SR#

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R2106170 **5**
Barton & Loguidice, PC
Lindley South Landfill - Baseline




Cooler Receipt and Preservation Check Form

R2106170

Barton & Loguidice, PC
Lindley South Landfill - Baseline

5

Project/Client BHL Folder Number _____Cooler received on 6/21/21 by: SL

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y ☒ N
2	Custody papers properly completed (ink, signed)?	☒ Y N
3	Did all bottles arrive in good condition (unbroken)?	☒ Y N
4	Circle: Wet ☒ Dry Ice Gel packs present?	☒ Y N

5a	Perchlorate samples have required headspace?	Y N ☒ NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	☒ Y N NA
6	Where did the bottles originate?	ALS/ROD CLIENT
7	Soil VOA received as: Bulk Encore 5035set	☒ NA

8. Temperature Readings Date: 6/21/21 Time: 1645 ID: IR#7 IR#D From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>43</u>	<u>011</u>					
Within 0-6°C?	☒ Y N	☒ Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Room by SLW on 6/21/21 at 1645
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 6/22/21 Time: 1230 by: SL

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES ☒ NO ☒ date/time
10. Did all bottle labels and tags agree with custody papers? YES ☒ NO ☒
11. Were correct containers used for the tests indicated? YES ☒ NO ☒
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES ☒ NO ☒
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated ☒ N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12	<u>223419</u>	NaOH	☒	<u>214719</u>	<u>4/22</u>				
≤2		HNO ₃	☒	<u>1120111</u>					
≤2		H ₂ SO ₄	☒	<u>112125, 05828</u>					
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	☒	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	-	-					
		HCl	**	**					

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 2596 21-04-20, 90+ 76626-02715, 21-04-07, 80221-03

Explain all Discrepancies/ Other Comments:

3 Vials: L-3, SW-72 Vials: Trip Blank

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SL

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106170-001.01	300.0,300.0,300.0,7196A,300.0,SM 2540 C-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1821	R-017 / GLAFORCE	
		6/22/2021	1827	RT000810 / GLAFORCE	
		6/25/2021	0047	R-002 / DWARD	
R2106170-001.02	Kelada-01	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
R2106170-001.03	350.1,351.2,410.4	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	2125	R-016 / DWARD	
		6/22/2021	2130	RT000187 / DWARD	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106170-001.04	7470A	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-002 / GLAFORCE	
		7/1/2021	1040	In Lab / BDIAMOND	
		7/1/2021	1257	R-A01 / BDIAMOND	
R2106170-001.05		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-001.06	8260C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		6/28/2021	1742	In Lab / KRUEST	
		6/28/2021	1831	R-001-S12 / KRUEST	
R2106170-001.07		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-001.08	SM 2120 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
R2106170-001.09					

Internal Chain of Custody Report

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106170-001.10	SM 2320 B-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-A01 / GLAFORCE	
		6/24/2021	1515	In Lab / NMANSEN	
		6/24/2021	1636	R-A01 / NMANSEN	
R2106170-001.11	SM 5210 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1516	RT000347 / GLAFORCE	
R2106170-001.12	SM 5310 C-2000(2011),9066	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
R2106170-002.01	300.0,7196A,300.0,300.0,300.0,SM 2540 C-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1821	R-017 / GLAFORCE	
		6/22/2021	1827	RT000810 / GLAFORCE	
		6/25/2021	0047	R-002 / DWARD	
R2106170-002.02	Kelada-01	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
R2106170-002.03	351.2,410.4,350.1	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	2125	R-016 / DWARD	
		6/22/2021	2130	RT000187 / DWARD	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106170-002.04	7470A	6/22/2021	1226	SMO / GLAFORCE	

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	7470A	6/22/2021	1232	R-002 / GLAFORCE	
		7/1/2021	1040	In Lab / BDIAMOND	
		7/1/2021	1257	R-A01 / BDIAMOND	
R2106170-002.05					
	8260C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		6/28/2021	1742	In Lab / KRUEST	
		6/28/2021	1831	R-001-S12 / KRUEST	
R2106170-002.06					
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-002.07					
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-002.08					
	SM 2120 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
R2106170-002.09					
	6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C, 6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-A01 / GLAFORCE	
		6/24/2021	1515	In Lab / NMANSEN	
		6/24/2021	1636	R-A01 / NMANSEN	
R2106170-002.10					
	SM 2320 B-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1516	RT000347 / GLAFORCE	
R2106170-002.11					
	SM 5210 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1447	R-014 / GLAFORCE	
		6/22/2021	1453	RT000742 / GLAFORCE	
R2106170-002.12					
	9066,SM 5310 C-2000(2011)	6/22/2021	1226	SMO / GLAFORCE	

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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	9066,SM 5310 C-2000(2011)	6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
		R2106170-003.01			
	7196A,300.0,300.0,300.0,300.0,SM 2540 C-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1821	R-017 / GLAFORCE	
		6/22/2021	1827	RT000810 / GLAFORCE	
		6/25/2021	0047	R-002 / DWARD	
		R2106170-003.02			
	Kelada-01	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
	410.4,351.2,350.1	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1238	RT000697 / GLAFORCE	
		6/22/2021	1240	R-016 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
		R2106170-003.03			
	7470A	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-002 / GLAFORCE	
		7/1/2021	1041	In Lab / BDIAMOND	
		7/1/2021	1257	R-A01 / BDIAMOND	
		R2106170-003.04			
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		R2106170-003.05			
	8260C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		6/28/2021	1742	In Lab / KRUEST	
		6/28/2021	1831	R-001-S12 / KRUEST	
		R2106170-003.06			
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		R2106170-003.07			
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		R2106170-003.08			

Internal Chain of Custody Report

Service Request: R2106170[illegible]

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106170-004.04	7470A	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-002 / GLAFORCE	
		7/1/2021	1041	In Lab / BDIAMOND	
		7/1/2021	1257	R-A01 / BDIAMOND	
R2106170-004.05	8260C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		6/28/2021	1742	In Lab / KRUEST	
		6/28/2021	1831	R-001-S12 / KRUEST	
R2106170-004.06		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-004.07		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-004.08	SM 2120 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
R2106170-004.09	6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-A01 / GLAFORCE	
		6/24/2021	1515	In Lab / NMANSEN	
		6/24/2021	1637	R-A01 / NMANSEN	
R2106170-004.10	SM 2320 B-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1516	RT000347 / GLAFORCE	
R2106170-004.11	SM 5210 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1447	R-014 / GLAFORCE	
		6/22/2021	1453	RT000742 / GLAFORCE	

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Internal Chain of Custody Report

Client: Barton & Loguidice, PC
Project: Lindley South Landfill - Baseline

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	9066,SM 5310 C-2000(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
R2106170-005.01					
	7196A,300.0,300.0,300.0,300.0,SM 2540 C-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1821	R-017 / GLAFORCE	
		6/22/2021	1826	RT000810 / GLAFORCE	
		6/25/2021	0047	R-002 / DWARD	
R2106170-005.02					
	Kelada-01	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
R2106170-005.03					
	410.4,351.2,350.1	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1238	RT000697 / GLAFORCE	
		6/22/2021	1240	R-016 / GLAFORCE	
		7/14/2021	0934	R-002 / GLAFORCE	
R2106170-005.04					
	7470A	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-002 / GLAFORCE	
		7/1/2021	1042	In Lab / BDIAMOND	
		7/1/2021	1257	R-A01 / BDIAMOND	
R2106170-005.05					
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-005.06					
	8260C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		6/28/2021	1742	In Lab / KRUEST	
		6/28/2021	1831	R-001-S12 / KRUEST	
R2106170-005.07					
		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	

Internal Chain of Custody Report

Service Request: R2106170

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106170-005.08	SM 2120 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
R2106170-005.09	6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-A01 / GLAFORCE	
		6/24/2021	1516	In Lab / NMANSSEN	
		6/24/2021	1637	R-A01 / NMANSSEN	
R2106170-005.10	SM 2320 B-1997(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/23/2021	1510	R-014 / GLAFORCE	
		6/23/2021	1516	RT000347 / GLAFORCE	
R2106170-005.11	SM 5210 B-2001(2011)	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1447	R-014 / GLAFORCE	
		6/22/2021	1453	RT000742 / GLAFORCE	
R2106170-005.12	SM 5310 C-2000(2011),9066	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1446	R-015 / GLAFORCE	
		6/22/2021	1452	RT000318 / GLAFORCE	
R2106170-006.01		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
R2106170-006.02	8260C	6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	
		6/28/2021	1742	In Lab / KRUEST	
		6/28/2021	1831	R-001-S12 / KRUEST	
R2106170-006.03		6/22/2021	1226	SMO / GLAFORCE	
		6/22/2021	1232	R-001 / GLAFORCE	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106170

Sample Name: SW-1
Lab Code: R2106170-001
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	NMANSEN
7196A	BDIAMOND	MROGERSON
7470A		KMCLAEN
8260C		KRUEST
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: SW-2
Lab Code: R2106170-002
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	NMANSEN
7196A	BDIAMOND	MROGERSON
7470A		KMCLAEN
8260C		KRUEST
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI

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Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106170

Sample Name: SW-2
Lab Code: R2106170-002
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: SW-4
Lab Code: R2106170-003
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KWONG
350.1		SMEDBURY
351.2	GNITAJOUPPI	GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	NMANSEN
7196A		MROGERSON
7470A	BDIAMOND	KMCLAEN
8260C		KRUEST
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: SW-7
Lab Code: R2106170-004
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KWONG
350.1		SMEDBURY
351.2	GNITAJOUPPI	GNITAJOUPPI

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Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106170

Sample Name: SW-7
Lab Code: R2106170-004
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
410.4	NMANSEN	SMEDBURY
6010C		NMANSEN
7196A	BDIAMOND	MROGERSON
7470A		KMCLAEN
8260C		KRUEST
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: L-3
Lab Code: R2106170-005
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0	GNITAJOUPPI	KWONG
350.1		SMEDBURY
351.2		GNITAJOUPPI
410.4		SMEDBURY
6010C	NMANSEN	KMCLAEN
6010C	NMANSEN	NMANSEN
7196A	BDIAMOND	MROGERSON
7470A		KMCLAEN
8260C		KRUEST
9066		CWOODS
Kelada-01		CWOODS
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		CLOI
SM 5210 B-2001(2011)		NSMITH
SM 5310 C-2000(2011)		SMEDBURY

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Analyst Summary report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline/

Service Request: R2106170

Sample Name: Trip Blank
Lab Code: R2106170-006
Sample Matrix: Water

Date Collected: 06/21/21
Date Received: 06/21/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

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ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 10:33
Date Received: 06/21/21 16:40

Sample Name: SW-1
Lab Code: R2106170-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/29/21 01:19	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/29/21 01:19	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/29/21 01:19	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 01:19	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/29/21 01:19	
2-Hexanone	5.0 U	5.0	0.20	1	06/29/21 01:19	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/29/21 01:19	
Acetone	5.0 U	5.0	5.0	1	06/29/21 01:19	
Acrylonitrile	10 U	10	0.90	1	06/29/21 01:19	
Benzene	1.0 U	1.0	0.20	1	06/29/21 01:19	
Bromochloromethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
Bromoform	1.0 U	1.0	0.25	1	06/29/21 01:19	
Bromomethane	1.0 U	1.0	0.70	1	06/29/21 01:19	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/29/21 01:19	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/29/21 01:19	
Chlorobenzene	1.0 U	1.0	0.20	1	06/29/21 01:19	
Chloroethane	1.0 U	1.0	0.23	1	06/29/21 01:19	
Chloroform	1.0 U	1.0	0.24	1	06/29/21 01:19	
Chloromethane	1.0 U	1.0	0.28	1	06/29/21 01:19	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
Dibromomethane	1.0 U	1.0	0.20	1	06/29/21 01:19	
Methylene Chloride	1.0 U	1.0	0.65	1	06/29/21 01:19	
Ethylbenzene	1.0 U	1.0	0.20	1	06/29/21 01:19	
Iodomethane	5.0 U	5.0	4.3	1	06/29/21 01:19	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/29/21 01:19	
Styrene	1.0 U	1.0	0.20	1	06/29/21 01:19	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/29/21 01:19	
Toluene	1.0 U	1.0	0.20	1	06/29/21 01:19	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/29/21 01:19	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/29/21 01:19	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/29/21 01:19	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 10:33
Date Received: 06/21/21 16:40

Sample Name: SW-1
Lab Code: R2106170-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/29/21 01:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/29/21 01:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/29/21 01:19	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/29/21 01:19	
o-Xylene	1.0 U	1.0	0.20	1	06/29/21 01:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/29/21 01:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/29/21 01:19	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/29/21 01:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/29/21 01:19	
Dibromofluoromethane	97	80 - 116	06/29/21 01:19	
Toluene-d8	99	87 - 121	06/29/21 01:19	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 10:48
Date Received: 06/21/21 16:40

Sample Name: SW-2
Lab Code: R2106170-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/29/21 01:41	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/29/21 01:41	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/29/21 01:41	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 01:41	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/29/21 01:41	
2-Hexanone	5.0 U	5.0	0.20	1	06/29/21 01:41	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/29/21 01:41	
Acetone	5.0 U	5.0	5.0	1	06/29/21 01:41	
Acrylonitrile	10 U	10	0.90	1	06/29/21 01:41	
Benzene	1.0 U	1.0	0.20	1	06/29/21 01:41	
Bromochloromethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
Bromoform	1.0 U	1.0	0.25	1	06/29/21 01:41	
Bromomethane	1.0 U	1.0	0.70	1	06/29/21 01:41	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/29/21 01:41	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/29/21 01:41	
Chlorobenzene	1.0 U	1.0	0.20	1	06/29/21 01:41	
Chloroethane	1.0 U	1.0	0.23	1	06/29/21 01:41	
Chloroform	1.0 U	1.0	0.24	1	06/29/21 01:41	
Chloromethane	1.0 U	1.0	0.28	1	06/29/21 01:41	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
Dibromomethane	1.0 U	1.0	0.20	1	06/29/21 01:41	
Methylene Chloride	1.0 U	1.0	0.65	1	06/29/21 01:41	
Ethylbenzene	1.0 U	1.0	0.20	1	06/29/21 01:41	
Iodomethane	5.0 U	5.0	4.3	1	06/29/21 01:41	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/29/21 01:41	
Styrene	1.0 U	1.0	0.20	1	06/29/21 01:41	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/29/21 01:41	
Toluene	1.0 U	1.0	0.20	1	06/29/21 01:41	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/29/21 01:41	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/29/21 01:41	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/29/21 01:41	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 10:48
Date Received: 06/21/21 16:40

Sample Name: SW-2
Lab Code: R2106170-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/29/21 01:41	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/29/21 01:41	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/29/21 01:41	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/29/21 01:41	
o-Xylene	1.0 U	1.0	0.20	1	06/29/21 01:41	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/29/21 01:41	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/29/21 01:41	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/29/21 01:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/29/21 01:41	
Dibromofluoromethane	102	80 - 116	06/29/21 01:41	
Toluene-d8	102	87 - 121	06/29/21 01:41	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:13
Date Received: 06/21/21 16:40

Sample Name: SW-4
Lab Code: R2106170-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/29/21 02:03	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/29/21 02:03	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/29/21 02:03	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 02:03	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/29/21 02:03	
2-Hexanone	5.0 U	5.0	0.20	1	06/29/21 02:03	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/29/21 02:03	
Acetone	5.0 U	5.0	5.0	1	06/29/21 02:03	
Acrylonitrile	10 U	10	0.90	1	06/29/21 02:03	
Benzene	1.0 U	1.0	0.20	1	06/29/21 02:03	
Bromochloromethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
Bromoform	1.0 U	1.0	0.25	1	06/29/21 02:03	
Bromomethane	1.0 U	1.0	0.70	1	06/29/21 02:03	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/29/21 02:03	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/29/21 02:03	
Chlorobenzene	1.0 U	1.0	0.20	1	06/29/21 02:03	
Chloroethane	1.0 U	1.0	0.23	1	06/29/21 02:03	
Chloroform	1.0 U	1.0	0.24	1	06/29/21 02:03	
Chloromethane	1.0 U	1.0	0.28	1	06/29/21 02:03	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
Dibromomethane	1.0 U	1.0	0.20	1	06/29/21 02:03	
Methylene Chloride	1.0 U	1.0	0.65	1	06/29/21 02:03	
Ethylbenzene	1.0 U	1.0	0.20	1	06/29/21 02:03	
Iodomethane	5.0 U	5.0	4.3	1	06/29/21 02:03	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/29/21 02:03	
Styrene	1.0 U	1.0	0.20	1	06/29/21 02:03	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/29/21 02:03	
Toluene	1.0 U	1.0	0.20	1	06/29/21 02:03	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/29/21 02:03	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/29/21 02:03	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/29/21 02:03	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:13
Date Received: 06/21/21 16:40

Sample Name: SW-4
Lab Code: R2106170-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/29/21 02:03	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/29/21 02:03	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/29/21 02:03	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/29/21 02:03	
o-Xylene	1.0 U	1.0	0.20	1	06/29/21 02:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/29/21 02:03	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/29/21 02:03	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/29/21 02:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/29/21 02:03	
Dibromofluoromethane	98	80 - 116	06/29/21 02:03	
Toluene-d8	101	87 - 121	06/29/21 02:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:22
Date Received: 06/21/21 16:40

Sample Name: SW-7
Lab Code: R2106170-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/29/21 02:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/29/21 02:25	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/29/21 02:25	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 02:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/29/21 02:25	
2-Hexanone	5.0 U	5.0	0.20	1	06/29/21 02:25	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/29/21 02:25	
Acetone	5.0 U	5.0	5.0	1	06/29/21 02:25	
Acrylonitrile	10 U	10	0.90	1	06/29/21 02:25	
Benzene	1.0 U	1.0	0.20	1	06/29/21 02:25	
Bromochloromethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
Bromoform	1.0 U	1.0	0.25	1	06/29/21 02:25	
Bromomethane	1.0 U	1.0	0.70	1	06/29/21 02:25	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/29/21 02:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/29/21 02:25	
Chlorobenzene	1.0 U	1.0	0.20	1	06/29/21 02:25	
Chloroethane	1.0 U	1.0	0.23	1	06/29/21 02:25	
Chloroform	1.0 U	1.0	0.24	1	06/29/21 02:25	
Chloromethane	1.0 U	1.0	0.28	1	06/29/21 02:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
Dibromomethane	1.0 U	1.0	0.20	1	06/29/21 02:25	
Methylene Chloride	1.0 U	1.0	0.65	1	06/29/21 02:25	
Ethylbenzene	1.0 U	1.0	0.20	1	06/29/21 02:25	
Iodomethane	5.0 U	5.0	4.3	1	06/29/21 02:25	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/29/21 02:25	
Styrene	1.0 U	1.0	0.20	1	06/29/21 02:25	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/29/21 02:25	
Toluene	1.0 U	1.0	0.20	1	06/29/21 02:25	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/29/21 02:25	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/29/21 02:25	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/29/21 02:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:22
Date Received: 06/21/21 16:40

Sample Name: SW-7
Lab Code: R2106170-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/29/21 02:25	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/29/21 02:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/29/21 02:25	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/29/21 02:25	
o-Xylene	1.0 U	1.0	0.20	1	06/29/21 02:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/29/21 02:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/29/21 02:25	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/29/21 02:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/29/21 02:25	
Dibromofluoromethane	102	80 - 116	06/29/21 02:25	
Toluene-d8	101	87 - 121	06/29/21 02:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:59
Date Received: 06/21/21 16:40

Sample Name: L-3
Lab Code: R2106170-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/29/21 02:47	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/29/21 02:47	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,2-Dichlorobenzene	0.21 J	1.0	0.20	1	06/29/21 02:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/29/21 02:47	
1,4-Dichlorobenzene	3.0	1.0	0.20	1	06/29/21 02:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/29/21 02:47	
2-Hexanone	5.0 U	5.0	0.20	1	06/29/21 02:47	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/29/21 02:47	
Acetone	5.0 U	5.0	5.0	1	06/29/21 02:47	
Acrylonitrile	10 U	10	0.90	1	06/29/21 02:47	
Benzene	1.0 U	1.0	0.20	1	06/29/21 02:47	
Bromochloromethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
Bromoform	1.0 U	1.0	0.25	1	06/29/21 02:47	
Bromomethane	1.0 U	1.0	0.70	1	06/29/21 02:47	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/29/21 02:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/29/21 02:47	
Chlorobenzene	0.70 J	1.0	0.20	1	06/29/21 02:47	
Chloroethane	1.0 U	1.0	0.23	1	06/29/21 02:47	
Chloroform	1.0 U	1.0	0.24	1	06/29/21 02:47	
Chloromethane	1.0 U	1.0	0.28	1	06/29/21 02:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
Dibromomethane	1.0 U	1.0	0.20	1	06/29/21 02:47	
Methylene Chloride	1.0 U	1.0	0.65	1	06/29/21 02:47	
Ethylbenzene	1.0 U	1.0	0.20	1	06/29/21 02:47	
Iodomethane	5.0 U	5.0	4.3	1	06/29/21 02:47	
Methyl tert-Butyl Ether	0.39 J	1.0	0.20	1	06/29/21 02:47	
Styrene	1.0 U	1.0	0.20	1	06/29/21 02:47	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/29/21 02:47	
Toluene	1.0 U	1.0	0.20	1	06/29/21 02:47	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/29/21 02:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/29/21 02:47	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/29/21 02:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:59
Date Received: 06/21/21 16:40

Sample Name: L-3
Lab Code: R2106170-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/29/21 02:47	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/29/21 02:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/29/21 02:47	
m,p-Xylenes	1.2 J	2.0	0.20	1	06/29/21 02:47	
o-Xylene	0.44 J	1.0	0.20	1	06/29/21 02:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/29/21 02:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/29/21 02:47	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/29/21 02:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/29/21 02:47	
Dibromofluoromethane	100	80 - 116	06/29/21 02:47	
Toluene-d8	98	87 - 121	06/29/21 02:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21
Date Received: 06/21/21 16:40

Sample Name: Trip Blank
Lab Code: R2106170-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/29/21 00:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/29/21 00:57	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/29/21 00:57	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/29/21 00:57	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/29/21 00:57	
2-Hexanone	5.0 U	5.0	0.20	1	06/29/21 00:57	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/29/21 00:57	
Acetone	5.0 U	5.0	5.0	1	06/29/21 00:57	
Acrylonitrile	10 U	10	0.90	1	06/29/21 00:57	
Benzene	1.0 U	1.0	0.20	1	06/29/21 00:57	
Bromochloromethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
Bromoform	1.0 U	1.0	0.25	1	06/29/21 00:57	
Bromomethane	1.0 U	1.0	0.70	1	06/29/21 00:57	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/29/21 00:57	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/29/21 00:57	
Chlorobenzene	1.0 U	1.0	0.20	1	06/29/21 00:57	
Chloroethane	1.0 U	1.0	0.23	1	06/29/21 00:57	
Chloroform	1.0 U	1.0	0.24	1	06/29/21 00:57	
Chloromethane	1.0 U	1.0	0.28	1	06/29/21 00:57	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
Dibromomethane	1.0 U	1.0	0.20	1	06/29/21 00:57	
Methylene Chloride	1.0 U	1.0	0.65	1	06/29/21 00:57	
Ethylbenzene	1.0 U	1.0	0.20	1	06/29/21 00:57	
Iodomethane	5.0 U	5.0	4.3	1	06/29/21 00:57	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/29/21 00:57	
Styrene	1.0 U	1.0	0.20	1	06/29/21 00:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/29/21 00:57	
Toluene	1.0 U	1.0	0.20	1	06/29/21 00:57	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/29/21 00:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/29/21 00:57	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/29/21 00:57	

ALS Group USA, Corp.
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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21
Date Received: 06/21/21 16:40

Sample Name: Trip Blank
Lab Code: R2106170-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/29/21 00:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/29/21 00:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/29/21 00:57	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/29/21 00:57	
o-Xylene	1.0 U	1.0	0.20	1	06/29/21 00:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/29/21 00:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/29/21 00:57	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/29/21 00:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/29/21 00:57	
Dibromofluoromethane	98	80 - 116	06/29/21 00:57	
Toluene-d8	102	87 - 121	06/29/21 00:57	



Metals

ALS Environmental—Rochester Laboratory

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METALS
-1-
INORGANIC ANALYSIS DATA SHEET
SAMPLE NO.
SW-1
Contract: R2106170
Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: SW-1
Matrix (soil/water): WATER
Lab Sample ID: R2106170-001
Level (low/med): LOW
Date Received: 6/21/2021
Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	100	U		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	52.2			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	54400			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	280			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	11800			P
7439-96-5	Manganese	385			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2750			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	11100			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless **Clarity Before:** Clear **Texture:** _____

Color After: Colorless **Clarity After:** Clear **Artifacts:** _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET
SAMPLE NO.
SW-2
Contract: R2106170
Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: SW-1
Matrix (soil/water): WATER
Lab Sample ID: R2106170-002
Level (low/med): LOW
Date Received: 6/21/2021
Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	942			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	54.8			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	200	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	50900			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	888			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	11000			P
7439-96-5	Manganese	150			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	3000			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	14600			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless **Clarity Before:** Clear **Texture:** _____

Color After: Colorless **Clarity After:** Clear **Artifacts:** _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SW-4

Contract: R2106170

Lab Code: Case No.: SAS No.: SDG NO.: SW-1

Matrix (soil/water): WATER Lab Sample ID: R2106170-003

Level (low/med): LOW Date Received: 6/21/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	552			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	45.8			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	919			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	54200			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	478			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	11400			P
7439-96-5	Manganese	18.9			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2530			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	18300			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SW-7

Contract: R2106170

Lab Code: Case No.: SAS No.: SDG NO.: SW-1

Matrix (soil/water): WATER Lab Sample ID: R2106170-004

Level (low/med): LOW Date Received: 6/21/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	710			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	54.2			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	512			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	61600			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	685			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	16800			P
7439-96-5	Manganese	31.0			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	2580			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	16500			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

L-3

Contract: R2106170

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: SW-1

Matrix (soil/water): WATER

Lab Sample ID: R2106170-005

Level (low/med): LOW

Date Received: 6/21/2021

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	100	U		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	275			P
7440-41-7	Beryllium	3.0	U		P
7440-42-8	Boron	17900			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	157000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	15700			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	49700			P
7439-96-5	Manganese	3200			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	27100			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	99400			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 10:33
Date Received: 06/21/21 16:40

Sample Name: SW-1
Lab Code: R2106170-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	158	mg/L	2.0	1	07/01/21 08:16	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:00	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 08:10	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:08	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.3	mg/L	1.0	1	07/08/21 23:21	NA	
Chemical Oxygen Demand, Total	410.4	11.2	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	17.6	mg/L	2.0	10	06/22/21 13:08	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/21/21 23:03	NA	
Color	SM 2120 B-2001(2011)	18.0	ColorUnits	1.0	1	06/22/21 07:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 15:25	NA	
Hardness, Total as CaCO ₃	SM 2340 B-1997(2011)	184	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:08	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.33	mg/L	0.20	1	07/07/21 12:06	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.19	pH Units	-	1	06/22/21 07:30	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 21:17	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	247	mg/L	10	1	06/25/21 14:30	NA	
Sulfate	300.0	26.0	mg/L	2.0	10	06/22/21 13:08	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 10:48
Date Received: 06/21/21 16:40

Sample Name: SW-2
Lab Code: R2106170-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	151	mg/L	2.0	1	07/01/21 08:34	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:02	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 08:11	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:27	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.8	mg/L	1.0	1	07/09/21 01:06	NA	
Chemical Oxygen Demand, Total	410.4	10.0	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	21.1	mg/L	2.0	10	06/22/21 13:27	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/21/21 23:05	NA	
Color	SM 2120 B-2001(2011)	16.0	ColorUnits	1.0	1	06/22/21 07:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 15:46	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	172	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:27	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.38	mg/L	0.20	1	07/07/21 12:07	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.22	pH Units	-	1	06/22/21 07:30	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 21:38	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	235	mg/L	10	1	06/25/21 14:30	NA	
Sulfate	300.0	24.4	mg/L	2.0	10	06/22/21 13:27	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:13
Date Received: 06/21/21 16:40

Sample Name: SW-4
Lab Code: R2106170-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	164	mg/L	2.0	1	07/01/21 08:41	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:03	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 08:11	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:34	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.5	mg/L	1.0	1	07/09/21 01:27	NA	
Chemical Oxygen Demand, Total	410.4	8.1	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	32.3	mg/L	2.0	10	06/22/21 13:34	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/21/21 23:05	NA	
Color	SM 2120 B-2001(2011)	12.0	ColorUnits	1.0	1	06/22/21 07:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 16:22	NA	
Hardness, Total as CaCO ₃	SM 2340 B-1997(2011)	182	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.30	mg/L	0.20	1	07/07/21 12:08	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.70	pH Units	-	1	06/22/21 07:30	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 21:41	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	257	mg/L	10	1	06/25/21 14:30	NA	
Sulfate	300.0	16.0	mg/L	2.0	10	06/22/21 13:34	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:22
Date Received: 06/21/21 16:40

Sample Name: SW-7
Lab Code: R2106170-004

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	174	mg/L	2.0	1	07/01/21 08:49	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 15:04	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 08:12	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:40	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.8	mg/L	1.0	1	07/09/21 01:47	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	26.0	mg/L	2.0	10	06/22/21 13:40	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/21/21 23:06	NA	
Color	SM 2120 B-2001(2011)	10.0	ColorUnits	1.0	1	06/22/21 07:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 17:05	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	223	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:40	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.23	mg/L	0.20	1	07/07/21 12:09	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	7.44	pH Units	-	1	06/22/21 07:30	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 21:45	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	302	mg/L	10	1	06/25/21 14:30	NA	
Sulfate	300.0	63.9	mg/L	2.0	10	06/22/21 13:40	NA	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21 11:59
Date Received: 06/21/21 16:40

Sample Name: L-3
Lab Code: R2106170-005

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	789	mg/L	6.0	3	07/01/21 10:47	NA	
Ammonia as Nitrogen, undistilled	350.1	25.8	mg/L	1.0	20	07/03/21 15:31	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	4.7	mg/L	2.0	1	06/23/21 08:13	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:47	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	19.6	mg/L	1.0	1	07/09/21 02:08	NA	
Chemical Oxygen Demand, Total	410.4	46.1	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	129	mg/L	8.0	40	06/22/21 13:53	NA	
Chromium, Hexavalent	7196A	0.050 U	mg/L	0.050	5	06/21/21 23:08	NA	
Color	SM 2120 B-2001(2011)	16.0	ColorUnits	1.0	1	06/22/21 07:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 17:17	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	597	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/22/21 13:47	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	30.5	mg/L	2.0	10	07/07/21 12:30	07/06/21	
pH of Color Analysis	SM 2120 B-2001(2011)	6.52	pH Units	-	1	06/22/21 07:30	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 22:01	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	967	mg/L	11	1	06/25/21 14:30	NA	
Sulfate	300.0	2.0 U	mg/L	2.0	10	06/22/21 13:47	NA	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
SW-1	R2106170-001	93	97	99
SW-2	R2106170-002	94	102	102
SW-4	R2106170-003	94	98	101
SW-7	R2106170-004	96	102	101
L-3	R2106170-005	94	100	98
Trip Blank	R2106170-006	95	98	102
Method Blank	RQ2107474-04	93	100	99
Lab Control Sample	RQ2107474-03	96	98	98

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2107474-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	06/28/21 23:52	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/28/21 23:52	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/28/21 23:52	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/28/21 23:52	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/28/21 23:52	
2-Hexanone	5.0 U	5.0	0.20	1	06/28/21 23:52	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/28/21 23:52	
Acetone	5.0 U	5.0	5.0	1	06/28/21 23:52	
Acrylonitrile	10 U	10	0.90	1	06/28/21 23:52	
Benzene	1.0 U	1.0	0.20	1	06/28/21 23:52	
Bromochloromethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
Bromoform	1.0 U	1.0	0.25	1	06/28/21 23:52	
Bromomethane	1.0 U	1.0	0.70	1	06/28/21 23:52	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/28/21 23:52	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/28/21 23:52	
Chlorobenzene	1.0 U	1.0	0.20	1	06/28/21 23:52	
Chloroethane	1.0 U	1.0	0.23	1	06/28/21 23:52	
Chloroform	1.0 U	1.0	0.24	1	06/28/21 23:52	
Chloromethane	1.0 U	1.0	0.28	1	06/28/21 23:52	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
Dibromomethane	1.0 U	1.0	0.20	1	06/28/21 23:52	
Methylene Chloride	1.0 U	1.0	0.65	1	06/28/21 23:52	
Ethylbenzene	1.0 U	1.0	0.20	1	06/28/21 23:52	
Iodomethane	5.0 U	5.0	4.3	1	06/28/21 23:52	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/28/21 23:52	
Styrene	1.0 U	1.0	0.20	1	06/28/21 23:52	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/28/21 23:52	
Toluene	1.0 U	1.0	0.20	1	06/28/21 23:52	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/28/21 23:52	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/28/21 23:52	
Vinyl Acetate	2.0 U	2.0	1.1	1	06/28/21 23:52	

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2107474-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Vinyl Chloride	1.0 U	1.0	0.20	1	06/28/21 23:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/28/21 23:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/28/21 23:52	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/28/21 23:52	
o-Xylene	1.0 U	1.0	0.20	1	06/28/21 23:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/28/21 23:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/28/21 23:52	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	06/28/21 23:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/28/21 23:52	
Dibromofluoromethane	100	80 - 116	06/28/21 23:52	
Toluene-d8	99	87 - 121	06/28/21 23:52	

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Analyzed: 06/28/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107474-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	22.3	20.0	111	76-129
1,1,1-Trichloroethane (TCA)	8260C	21.0	20.0	105	75-125
1,1,2,2-Tetrachloroethane	8260C	21.5	20.0	108	78-126
1,1,2-Trichloroethane	8260C	20.2	20.0	101	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.2	20.0	101	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	27.4	20.0	137 *	71-118
1,2,3-Trichloropropane	8260C	20.9	20.0	104	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.7	20.0	93	55-136
1,2-Dibromoethane	8260C	20.0	20.0	100	82-127
1,2-Dichlorobenzene	8260C	20.7	20.0	104	80-119
1,2-Dichloroethane	8260C	20.7	20.0	104	71-127
1,2-Dichloropropane	8260C	19.5	20.0	98	80-119
1,4-Dichlorobenzene	8260C	20.7	20.0	104	79-119
2-Butanone (MEK)	8260C	17.8	20.0	89	61-137
2-Hexanone	8260C	20.3	20.0	101	63-124
4-Methyl-2-pentanone	8260C	20.0	20.0	100	66-124
Acetone	8260C	17.3	20.0	86	40-161
Acrylonitrile	8260C	104	100	104	71-130
Benzene	8260C	21.1	20.0	105	79-119
Bromochloromethane	8260C	20.3	20.0	102	81-126
Bromodichloromethane	8260C	20.1	20.0	101	81-123
Bromoform	8260C	19.5	20.0	98	65-146
Bromomethane	8260C	14.4	20.0	72	42-166
Carbon Disulfide	8260C	19.9	20.0	100	66-128
Carbon Tetrachloride	8260C	19.9	20.0	100	70-127
Chlorobenzene	8260C	20.3	20.0	102	80-121
Chloroethane	8260C	23.6	20.0	118	62-131
Chloroform	8260C	21.1	20.0	105	79-120
Chloromethane	8260C	16.1	20.0	81	65-135
Dibromochloromethane	8260C	18.9	20.0	95	72-128
Dibromomethane	8260C	19.5	20.0	98	80-118
Methylene Chloride	8260C	18.8	20.0	94	73-122
Ethylbenzene	8260C	21.2	20.0	106	76-120

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Superset Reference:21-0000594627 rev 00

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Analyzed: 06/28/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107474-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iodomethane	8260C	16.8	20.0	84	18-160
Methyl tert-Butyl Ether	8260C	19.7	20.0	98	75-118
Styrene	8260C	20.5	20.0	102	80-124
Tetrachloroethene (PCE)	8260C	21.8	20.0	109	72-125
Toluene	8260C	20.6	20.0	103	79-119
Trichloroethene (TCE)	8260C	20.6	20.0	103	74-122
Trichlorofluoromethane (CFC 11)	8260C	22.5	20.0	113	71-136
Vinyl Acetate	8260C	21.9	20.0	109	52-174
Vinyl Chloride	8260C	18.1	20.0	91	74-159
cis-1,2-Dichloroethene	8260C	21.6	20.0	108	80-121
cis-1,3-Dichloropropene	8260C	20.2	20.0	101	77-122
m,p-Xylenes	8260C	42.6	40.0	107	80-126
o-Xylene	8260C	21.0	20.0	105	79-123
trans-1,2-Dichloroethene	8260C	22.6	20.0	113	73-118
trans-1,3-Dichloropropene	8260C	18.6	20.0	93	71-133
trans-1,4-Dichloro-2-butene	8260C	15.9	20.0	80	39-137



Metals

ALS Environmental—Rochester Laboratory

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METALS

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BLANKS

Contract: R2106170

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SW-1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Aluminum	100.00	U	100.00	U	100.00	U	100.00	U	100.000	P
Antimony	60.00	U	60.00	U	60.00	U	60.00	U	60.000	P
Arsenic	10.00	U	10.00	U	10.00	U	10.00	U	10.000	P
Barium	20.00	U	20.00	U	20.00	U	20.00	U	20.000	P
Beryllium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	P
Boron	200.00	U	200.00	U	200.00	U	200.00	U	200.000	P
Cadmium	5.00	U	5.00	U	5.00	U	5.00	U	5.000	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	CV
Calcium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	P
Chromium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	P
Cobalt	50.00	U	50.00	U	50.00	U	50.00	U	50.000	P
Copper	20.00	U	20.00	U	20.00	U	20.00	U	20.000	P
Iron	100.00	U	100.00	U	100.00	U	100.00	U	100.000	P
Lead	50.00	U	50.00	U	50.00	U	50.00	U	50.000	P
Magnesium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	P
Manganese	10.00	U	10.00	U	10.00	U	10.00	U	10.000	P
Nickel	40.00	U	40.00	U	40.00	U	40.00	U	40.000	P
Potassium	2000.00	U	2000.00	U	2000.00	U	2000.00	U	2000.000	P
Selenium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	P
Silver	10.00	U	10.00	U	10.00	U	10.00	U	10.000	P
Sodium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	P
Thallium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	P
Vanadium	50.00	U	50.00	U	50.00	U	50.00	U	50.000	P
Zinc	20.00	U	20.00	U	20.00	U	20.00	U	20.000	P

Comments:

METALS

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BLANKS

Contract: R2106170

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SW-1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			100.00	U	100.00	U	100.00	U			P
Antimony			60.00	U	60.00	U	60.00	U			P
Arsenic			10.00	U	10.00	U	10.00	U			P
Barium			20.00	U	20.00	U	20.00	U			P
Beryllium			3.00	U	3.00	U	3.00	U			P
Boron			200.00	U	200.00	U	200.00	U			P
Cadmium			5.00	U	5.00	U	5.00	U			P
Mercury			0.200	U	0.200	U					CV
Calcium			1000.00	U	1000.00	U	1000.00	U			P
Chromium			10.00	U	10.00	U	10.00	U			P
Cobalt			50.00	U	50.00	U	50.00	U			P
Copper			20.00	U	20.00	U	20.00	U			P
Iron			100.00	U	100.00	U	100.00	U			P
Lead			50.00	U	50.00	U	50.00	U			P
Magnesium			1000.00	U	1000.00	U	1000.00	U			P
Manganese			10.00	U	10.00	U	10.00	U			P
Nickel			40.00	U	40.00	U	40.00	U			P
Potassium			2000.00	U	2000.00	U	2000.00	U			P
Selenium			10.00	U	10.00	U	10.00	U			P
Silver			10.00	U	10.00	U	10.00	U			P
Sodium			1000.00	U	1000.00	U	1000.00	U			P
Thallium			10.00	U	10.00	U	10.00	U			P
Vanadium			50.00	U	50.00	U	50.00	U			P
Zinc			20.00	U	20.00	U	20.00	U			P

Comments:

METALS

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BLANKS

Contract: R2106170

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SW-1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Aluminum		100.00	U							P
Antimony		60.00	U							P
Arsenic		10.00	U							P
Barium		20.00	U							P
Beryllium		3.00	U							P
Boron		200.00	U							P
Cadmium		5.00	U							P
Calcium		1000.00	U							P
Chromium		10.00	U							P
Cobalt		50.00	U							P
Copper		20.00	U							P
Iron		100.00	U							P
Lead		50.00	U							P
Magnesium		1000.00	U							P
Manganese		10.00	U							P
Nickel		40.00	U							P
Potassium		2000.00	U							P
Selenium		10.00	U							P
Silver		10.00	U							P
Sodium		1000.00	U							P
Thallium		10.00	U							P
Vanadium		50.00	U							P
Zinc		20.00	U							P

Comments:

METALS

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BLANKS

Contract: R2106170

Lab Code: Case No.: SAS No.: SDG NO.: SW-1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		
		1	2	3						
Boron	200.00	200.00	200.00	200.00						P

Comments:

METALS

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BLANKS

Contract: R2106170

Lab Code: Case No.: SAS No.: SDG NO.: SW-1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		
		1	2	3						
Boron		200.00	200.00	200.00						

Comments:

METALS
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DUPLICATES

SAMPLE NO.

DLCSW

Contract: R2106170

Lab Code: Case No.: SAS No.: SDG NO.: SW-1

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum		1990	1990	0		P
Antimony		476	481	1		P
Arsenic		40	39	3		P
Barium		2050	2050	0		P
Beryllium		52	52	0		P
Boron		1000	1000	0		P
Cadmium		51	51	0		P
Calcium		2060	2070	0		P
Chromium		204	205	0		P
Cobalt		508	508	0		P
Copper		249	250	0		P
Iron		1010	1010	0		P
Lead		505	507	0		P
Magnesium		1970	1980	1		P
Manganese		503	504	0		P
Nickel		503	504	0		P
Potassium		19500	19500	0		P
Selenium		938	942	0		P
Silver		48	48	0		P
Sodium		18800	18800	0		P
Thallium		1820	1820	0		P
Vanadium		499	499	0		P
Zinc		505	502	1		P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: **R2106170**

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: **SW-1**

Solid LCS Source: _____

Aqueous LCS Source: **CPI**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	2000	1990	100						
Antimony	500	476	95						
Arsenic	40	40	100						
Barium	2000	2050	102						
Beryllium	50	52	104						
Boron	1000	1000	100						
Cadmium	50	51	102						
Mercury	1.000	0.973	97						
Calcium	2000	2060	103						
Chromium	200	204	102						
Cobalt	500	508	102						
Copper	250	249	100						
Iron	1000	1010	101						
Lead	500	505	101						
Magnesium	2000	1970	98						
Manganese	500	503	101						
Nickel	500	503	101						
Potassium	20000	19500	98						
Selenium	1010	938	93						
Silver	50	48	96						
Sodium	20000	18800	94						
Thallium	2000	1820	91						
Vanadium	500	499	100						
Zinc	500	505	101						

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: **R2106170**

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: **SW-1**

Solid LCS Source: _____

Aqueous LCS Source: **CPI**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	2000	1990	100						
Antimony	500	481	96						
Arsenic	40	39	98						
Barium	2000	2050	102						
Beryllium	50	52	104						
Boron	1000	1000	100						
Cadmium	50	51	102						
Calcium	2000	2070	104						
Chromium	200	205	102						
Cobalt	500	508	102						
Copper	250	250	100						
Iron	1000	1010	101						
Lead	500	507	101						
Magnesium	2000	1980	99						
Manganese	500	504	101						
Nickel	500	504	101						
Potassium	20000	19500	98						
Selenium	1010	942	93						
Silver	50	48	96						
Sodium	20000	18800	94						
Thallium	2000	1820	91						
Vanadium	500	499	100						
Zinc	500	502	100						

Comments: _____



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R2106170-MB

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	07/01/21 06:30	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	07/03/21 14:40	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	06/23/21 15:40	NA	
Bromide	300.0	0.10 U	mg/L	0.10	1	06/22/21 12:54	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	07/08/21 14:57	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	07/03/21 13:00	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	06/22/21 12:54	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/21/21 23:02	NA	
Color	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	06/22/21 07:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/30/21 14:38	NA	
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	06/22/21 12:54	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	07/07/21 12:03	07/06/21	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/26/21 20:29	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10 U	mg/L	10	1	06/25/21 14:30	NA	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/22/21 12:54	NA	

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21
Date Received: 06/21/21
Date Analyzed: 06/21/21 - 07/08/21

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: SW-1
Lab Code: R2106170-001

Units: mg/L
Basis: NA

Matrix Spike
R2106170-001MS

Duplicate Matrix Spike
R2106170-001DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Bromide	300.0	1.0 U	9.0	10.0	90	9.0	10.0	90	90-110	<1	20
Chloride	300.0	17.6	35.8	20.0	91	35.6	20.0	90	90-110	<1	20
Chromium, Hexavalent	7196A	0.010 U	0.104	0.100	104	0.104	0.100	104	85-115	<1	20
Nitrate as Nitrogen	300.0	1.0 U	10.1	10.0	101	10.0	10.0	100	90-110	<1	20
Sulfate	300.0	26.0	45.1	20.0	96	44.8	20.0	94	90-110	<1	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.3	15.0	10.0	107	14.6	10.0	103	48-135	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Superset Reference: 21-0000594627 rev 00

ALS Group USA, Corp.

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21
Date Received: 06/21/21
Date Analyzed: 06/30/21

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name: SW-4
Lab Code: R2106170-003
Analysis Method: Kelada-01

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2106170-003MS		Result	Duplicate Matrix Spike R2106170-003DMS		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Cyanide, Total	0.0050 U	0.101	0.100	101	0.103	0.100	103	90-110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Collected: 06/21/21
Date Received: 06/21/21
Date Analyzed: 06/30/21

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name: SW-7
Lab Code: R2106170-004
Analysis Method: Kelada-01

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2106170-004MS		Result	Duplicate Matrix Spike R2106170-004DMS		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Cyanide, Total	0.0050 U	0.101	0.100	101	0.0996	0.100	100	90-110	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

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QA/QC Report

Client: Barton & Loguidice, DPC
Project Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170**Date Collected:** 06/21/21**Date Received:** 06/21/21**Date Analyzed:** 06/22/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name: L-3
Lab Code: R2106170-005

Units: ColorUnits**Basis:** NA

				Duplicate Sample R2106170- 005DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Color	SM 2120 B-2001(2011)	1.0	16.0	16.0	16.0	<1	5

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170**Date Collected:** 06/21/21**Date Received:** 06/21/21**Date Analyzed:** 06/25/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name: L-3
Lab Code: R2106170-005

Units: mg/L**Basis:** NA

					Duplicate Sample R2106170- 005DUP		
Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	967	958	963	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Lindley South Landfill - Baseline
Sample Matrix: Water

Service Request: R2106170
Date Analyzed: 06/21/21 - 07/08/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2106170-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	19.8	20.0	99	80-120
Ammonia as Nitrogen, undistilled	350.1	0.481	0.500	96	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	188	198	95	85-115
Bromide	300.0	0.910	1.00	91	90-110
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	10.0	101	80-121
Chemical Oxygen Demand, Total	410.4	48.9	50.0	98	90-110
Chloride	300.0	1.88	2.00	94	90-110
Chromium, Hexavalent	7196A	0.101	0.100	101	80-120
Cyanide, Total	Kelada-01	0.100	0.100	100	90-110
Nitrate as Nitrogen	300.0	0.969	1.00	97	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	2.57	2.50	103	90-110
Phenolics, Total Recoverable	9066	0.0380	0.0400	95	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	918	914	100	90-110
Sulfate	300.0	1.95	2.00	98	90-110

Appendix C

**STEUBEN COUNTY LANDFILL
LINDLEY SOUTH LANDFILL
PAGE INDEX**

SAMPLE LOCATIONS	FIELD/ INORGANIC PARAMETERS	TOTAL METALS	DISSOLVED METALS	ORGANIC COMPOUNDS (DETECTED)
MONITORING WELLS				
<i>Shallow Overburden Unit</i>				
MW-1	2-3	4-5	6-7	8
MW-2S	10-11	12-13	14-15	16
MW-3	18-19	20-21	22-23	24
MW-4	26-27	28-29	30-31	32
GW-1	34-35	36-37	38-39	40
GW-4	42-43	44-45	46-47	48
<i>Bedrock Unit</i>				
MW-2D	50-51	52-53	54-55	56
SURFACE WATER MONITORING LOCATIONS				
SW-1	58-59	60-61	62-63	64
SW-2	66-67	68-69	70-71	72
SW-4	74-75	76-77	78-79	80
SW-7	82-83	84-85	86-87	88
<i>Leachate</i>				
L-3	90-91	92-93	94-95	96

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

	FIELD PARAMETERS					INORGANIC PARAMETERS					
OVERBURDEN UNIT	TEMP.	Eh	pH	SP. COND.	TURB.	ALK.		HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	COLOR (Units)	(mg/l CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
Monitoring Wells MW-1											
17-Aug-99	53	214.0	7.6	475	23.6	500	252	286	240	2	13
11-Nov-99	50	8.0	7.7	490	32.8	-	221	200	30	1	19
16-Feb-00	47	-38.0	7.9	440	17.0	100	190	215	224	2	14
18-May-00	56	-84.0	8.1	350	15.0	500	180	169	206	1	12
22-Aug-00	54	76.0	8.4	326	13.7	-	193	195	217	2	17
13-Nov-00	49	6.0	8.1	370	12.8	-	177	186	202	< 2	13
16-May-01	51	-11.0	8.8	427	8.2	-	201	171	252	1	14
10-Sep-01	53	38.8	7.4	295	295.0	60	250	360	340	< 1	16
10-Dec-01	48	-50.5	7.5	209	24.7	-	190	160	300	< 1	13
11-Feb-02	41	-35.8	7.6	252	16.6	-	180	160	190	1	10
13-May-02	53	-64.4	8.0	161	8.5	-	160	170	220	2	12
13-Aug-02	58	-52.9	7.8	121	1.7	-	210	190	440	< 1	12
04-Nov-02	49	-24.8	7.8	388	21.6	60	290	280	360	3	62
18-Feb-03	42	-13.9	7.0	223	1.3	-	200	180	220	2	10
06-May-03	50	-29.1	7.5	170	1.4	-	180	150	200	< 1	11
08-Aug-03	69	16.1	7.2	156	0.6	-	190	190	290	< 2	13
28-Oct-03	54	6.9	7.2	274	1.1	-	220	170	260	2	14
27-Jan-04	42	2.5	7.0	252	1.6	-	180	150	260	< 1	13
14-Apr-04	44	-19.2	7.5	258	1.8	-	170	150	200	1	13
12-Jul-04	55	-	7.2	283	1.2	5	230	190	220	2	17
05-Oct-04	59	-25.6	7.4	274	0.9	-	200	190	250	1	16
18-Jan-05	42	-8.2	7.4	256	2.0	-	260	140	640	7	16
05-Apr-05	49	0.1	7.5	260	2.3	-	170	160	52	7	12
02-Aug-05	60	19.9	7.2	286	0.3	-	210	180	237	156	12
01-Nov-05	57	-32.9	7.7	241	1.0	10	190	150	217	5	10
14-Feb-06	44	12.3	7.6	238	2.8	7	240	170	205	< 1	14
18-Apr-06	50	-3.9	7.6	215	1.8	-	180	160	178	1	12
25-Jul-06	68	25.8	6.5	249	0.7	-	190	150	235	2	11
17-Oct-06	56	-17.2	7.7	233	0.7	-	200	180	220	3	7
18-Jan-07	42	10.0	7.4	238	1.9	-	180	130	182	5	6
03-Apr-07	51	20.7	7.3	208	2.1	5	170	140	418	3	7
10-Jul-07	58	-16.7	7.4	247	0.7	-	200	190	158	4	14
16-Oct-07	57	-11.5	7.0	244	3.8	-	190	168	308	2	< 10
28-Mar-08	39	-30.9	7.6	205	2.8	-	180	175	185	2	< 20
30-Jun-09	64	-60.9	7.8	291	2.1	-	170	202	260	3	12
14-Jul-09	61	-57.7	7.8	307	1.0	-	170	213	220	4	11
06-Oct-09	58	-37.7	7.5	304	2.0	24	200	213	290	3	11
25-Jan-10	40	-23.9	7.1	313	8.8	12	190	188	250	2	11
19-Apr-11	46	-49.1	7.3	358	10.3	-	130	178	170	3	14
31-Jul-12	65	-38.4	7.8	241	9.7	-	190	197	200	2	15
12-Nov-13	53	177.0	7.8	380	2.9	20	156	207	206	1	12
31-Mar-15	36	-64.0	8.1	440	3.2	-	163	208	240	23	10
18-May-16	51	73.0	7.8	410	3.5	-	188	217	194	17	11
18-Jul-17	62	197.0	7.8	410	2.1	5	175	218	222	16	12
12-Dec-18	45	122.0	7.6	414	8.6	-	183	221	235	12	10
20-Mar-20	44	204.0	7.8	394	5.4	-	182	191	228	9	10
22-Jun-21	55	135.0	7.6	427	3.9	8	199	220	233	9	10

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10	2.0	-	-	-	-	0.001	0.20
Monitoring Wells MW-1											
17-Aug-99	< 1.0	< 0.50	< 0.01	0.06	0.29	3.03	18	< 3	2	< 0.004	0.07
11-Nov-99	< 1.0	-	-	< 0.20	< 0.10	1.99	< 10	< 3	2	< 0.004	-
16-Feb-00	< 1.0	0.05	< 0.01	0.11	< 0.10	< 1.00	< 10	< 3	1	< 0.004	< 0.01
18-May-00	< 1.0	< 0.05	< 0.01	0.14	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.01
22-Aug-00	< 1.0	0.13	< 0.01	0.12	< 0.10	1.54	14	< 3	2	< 0.004	< 0.01
13-Nov-00	< 0.2	-	-	0.18	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-May-01	1.0	-	-	0.14	< 0.10	1.00	< 10	< 3	1	< 0.004	-
10-Sep-01	-	< 0.50	< 0.01	< 0.20	0.90	2.80	26	< 4	2	< 0.005	< 0.01
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	0.30	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
04-Nov-02	< 0.2	< 0.30	< 0.01	10.00	< 0.50	< 0.50	120	< 4	< 3	< 0.005	< 0.01
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	0.90	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 32	< 4	< 3	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
27-Jan-04	< 0.2	-	-	0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Apr-04	-	-	-	-	-	-	16	-	-	-	-
12-Jul-04	< 0.2	< 0.50	< 0.01	0.27	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
05-Oct-04	< 0.2	-	-	0.23	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	0.25	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.50	< 0.01	0.25	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	0.22	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
17-Oct-06	< 2.0	-	-	0.38	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-07	< 2.0	-	-	0.44	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
03-Apr-07	< 2.0	0.67	< 0.01	0.27	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
10-Jul-07	-	-	-	0.25	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
16-Oct-07	< 2.0	-	-	0.34	< 0.50	< 0.50	< 20	6	< 3	< 0.005	-
28-Mar-08	< 20.0	-	-	0.36	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
30-Jun-09	< 0.2	-	-	0.48	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 2.0	-	-	0.39	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	0.36	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
25-Jan-10	< 2.0	< 0.50	< 0.01	0.38	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.34	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 8.0	-	-	0.46	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
12-Nov-13	< 0.2	< 0.20	< 0.01	0.41	0.05	0.75	< 10	< 2	< 1	< 0.010	< 0.01
31-Mar-15	< 0.2	-	-	0.86	< 0.02	< 0.20	< 10	< 2	1	< 0.010	-
18-May-16	< 0.2	-	-	2.00	< 0.02	< 0.20	< 10	< 2	< 1	< 0.010	-
18-Jul-17	< 0.2	< 0.02	-	1.90	< 0.02	0.45	< 10	< 2	< 1	< 0.010	< 0.01
12-Dec-18	< 1.0	-	-	< 1.00	< 0.05	< 0.20	< 5	< 2	< 1	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	< 0.05	< 0.20	< 5	< 2	< 1	< 0.005	-
22-Jun-21	< 1.0	< 0.20	< 0.01	1.20	< 0.05	< 0.20	< 5	< 2	< 1	< 0.005	< 0.01

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
TOTAL METALS											
OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-1											
17-Aug-99	40.50	< 0.050	0.034	0.267	< 0.002	< 0.005	68	0.06	0.021	0.04	73.30
11-Nov-99	-	-	-	-	-	< 0.005	54	-	-	-	0.24
16-Feb-00	0.52	< 0.050	< 0.002	0.036	< 0.002	< 0.005	57	< 0.01	< 0.01	< 0.02	0.87
18-May-00	0.09	< 0.050	< 0.002	0.023	< 0.002	< 0.005	45	< 0.01	< 0.01	< 0.02	0.18
22-Aug-00	1.13	< 0.050	< 0.002	0.360	< 0.002	< 0.005	52	< 0.01	< 0.01	0.02	1.61
13-Nov-00	-	-	-	-	-	< 0.005	50	-	-	-	0.34
16-May-01	-	-	-	-	-	< 0.005	46	-	-	-	1.15
10-Sep-01	53.00	< 0.003	0.025	0.400	< 0.005	0.017	78	0.12	0.30	0.09	110.00
10-Dec-01	-	-	-	-	-	< 0.005	43	-	-	-	2.20
11-Feb-02	-	-	-	-	-	< 0.005	41	-	-	-	4.10
13-May-02	-	-	-	-	-	< 0.005	43	-	-	-	8.60
13-Aug-02	-	-	-	-	-	0.005	50	-	-	-	1.60
04-Nov-02	18.00	< 0.003	0.012	< 0.300	< 0.005	0.008	66	< 0.05	0.09	0.29	34.00
18-Feb-03	-	-	-	-	-	< 0.005	47	-	-	-	0.24
06-May-03	-	-	-	-	-	< 0.005	39	-	-	-	0.36
08-Aug-03	-	-	-	-	-	< 0.005	52	-	-	-	0.15
28-Oct-03	-	-	-	-	-	< 0.005	45	-	-	-	0.24
27-Jan-04	-	-	-	-	-	< 0.005	41	-	-	-	0.17
14-Apr-04	-	-	-	-	-	-	41	-	-	-	0.24
12-Jul-04	3.90	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	49	0.01	0.06	0.13	6.20
05-Oct-04	-	-	-	-	-	< 0.005	52	-	-	-	0.11
18-Jan-05	-	-	-	-	-	< 0.005	38	-	-	-	0.08
05-Apr-05	-	-	-	-	-	< 0.005	42	-	-	-	0.17
02-Aug-05	-	-	-	-	-	< 0.005	48	-	-	-	0.19
01-Nov-05	< 0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	41	< 0.05	< 0.05	< 0.02	0.17
14-Feb-06	0.09	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	47	< 0.05	< 0.05	0.05	0.19
18-Apr-06	-	-	-	-	-	< 0.005	42	-	-	-	0.12
25-Jul-06	-	-	-	-	-	< 0.005	42	-	-	-	0.15
17-Oct-06	-	-	-	-	-	< 0.005	49	-	-	-	0.13
18-Jan-07	-	-	-	-	-	< 0.005	36	-	-	-	0.27
03-Apr-07	0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	38	< 0.05	< 0.05	< 0.02	0.17
10-Jul-07	-	-	-	-	-	< 0.005	50	-	-	-	1.20
16-Oct-07	-	-	-	-	-	< 0.005	45	-	-	-	0.40
28-Mar-08	-	-	-	-	-	< 0.005	46	-	-	-	0.17
30-Jun-09	-	-	-	-	-	< 0.005	54	-	-	-	0.12
14-Jul-09	-	-	-	-	-	< 0.005	57	-	-	-	0.13
06-Oct-09	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	57	< 0.01	< 0.02	< 0.01	0.07
25-Jan-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	49	< 0.01	< 0.02	< 0.01	0.12
19-Apr-11	-	-	-	-	-	< 0.005	47	-	-	-	0.40
31-Jul-12	-	-	-	-	-	< 0.005	51	-	-	-	0.12
12-Nov-13	0.32	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	57	< 0.01	< 0.05	< 0.03	0.57
31-Mar-15	-	-	-	-	-	< 0.002	53	-	-	-	0.14
18-May-16	-	-	-	-	-	< 0.002	59	-	-	-	0.26
18-Jul-17	< 0.20	< 0.020	< 0.015	0.030	< 0.002	< 0.002	58	< 0.004	< 0.004	< 0.01	0.06
12-Dec-18	-	-	-	-	-	< 0.005	60	-	-	-	0.42
20-Mar-20	-	-	-	-	-	< 0.005	52	-	-	-	0.27
22-Jun-21	5.30	< 0.060	< 0.010	0.059	< 0.003	< 0.005	59	< 0.01	< 0.05	< 0.02	4.76

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-1												
17-Aug-99	0.044	28	0.89	< 0.0002	0.06	8.51	5.8	< 0.002	< 0.01	< 0.001	0.06	< 0.16
11-Nov-99	0.002	16	-	-	-	1.21	4.8	-	-	-	-	-
16-Feb-00	0.001	18	0.02	< 0.0002	< 0.01	1.36	4.7	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.003	14	< 0.01	< 0.0002	< 0.01	0.97	3.5	< 0.002	< 0.01	< 0.001	< 0.01	0.02
22-Aug-00	0.005	16	0.03	< 0.0002	< 0.01	1.38	4.6	< 0.002	< 0.01	< 0.001	< 0.01	0.33
13-Nov-00	0.002	15	-	-	-	1.84	5.9	-	-	-	-	-
16-May-01	0.002	14	-	-	< 0.03	1.62	4.1	-	-	-	-	-
10-Sep-01	0.043	40	1.40	< 0.0004	0.16	11.00	14.0	< 0.001	< 0.05	-	-	0.31
10-Dec-01	0.003	13	-	-	< 0.03	-	-	-	0.23	-	-	-
11-Feb-02	0.002	13	-	-	< 0.03	-	-	-	0.07	-	-	-
13-May-02	0.006	14	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-Aug-02	0.003	16	-	-	0.04	-	-	-	0.09	-	-	-
04-Nov-02	0.022	28	0.58	< 0.0004	0.10	5.40	13.0	< 0.005	< 0.05	< 0.003	< 0.3	0.62
18-Feb-03	0.002	15	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	12	-	-	0.05	-	-	-	0.06	-	-	-
08-Aug-03	< 0.001	15	-	-	0.05	-	-	-	0.06	-	-	-
28-Oct-03	< 0.001	13	-	-	< 0.03	-	-	-	0.06	-	-	-
27-Jan-04	0.001	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.002	12	-	-	-	-	-	-	-	-	-	-
12-Jul-04	< 0.003	16	0.08	0.0000	0.04	2.70	6.6	0.019	< 0.05	0.006	< 0.30	0.06
05-Oct-04	0.001	15	-	-	0.03	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.001	12	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.003	14	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	11	< 0.02	< 0.0004	< 0.03	< 0.50	3.6	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.001	13	< 0.02	< 0.0004	< 0.03	1.40	6.2	< 0.005	< 0.05	0.007	< 0.30	< 0.01
18-Apr-06	< 0.001	13	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.004	12	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	14	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	11	< 0.02	< 0.0004	< 0.03	< 0.50	1.9	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	0.003	15	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.007	14	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	15	< 0.01	-	-	< 1.00	3.7	-	-	-	-	-
30-Jun-09	< 0.003	16	0.06	-	-	< 1.00	4.3	-	-	-	-	-
14-Jul-09	< 0.003	17	< 0.01	-	-	< 1.00	4.8	-	-	-	-	-
06-Oct-09	< 0.003	17	< 0.01	< 0.0002	< 0.03	< 5.00	5.7	< 0.005	< 0.01	< 0.010	< 0.03	0.02
25-Jan-10	< 0.003	16	< 0.01	< 0.0002	< 0.03	< 5.00	< 5.0	< 0.005	< 0.01	< 0.010	< 0.03	0.01
19-Apr-11	< 0.003	15	< 0.01	-	-	< 5.00	< 5.0	-	-	-	-	-
31-Jul-12	< 0.003	17	< 0.01	-	-	< 5.00	< 5.0	-	-	-	-	-
12-Nov-13	< 0.010	16	< 0.02	< 0.0002	< 0.04	< 5.00	< 5.0	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
31-Mar-15	< 0.010	18	0.003	-	-	0.97	4.5	-	-	-	-	-
18-May-16	< 0.010	17	0.009	-	-	1.50	5.1	-	-	-	-	-
18-Jul-17	< 0.010	18	< 0.003	< 0.0002	< 0.01	1.00	4.6	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	18	< 0.010	-	-	< 2.00	6.5	-	-	-	-	-
20-Mar-20	< 0.050	15	< 0.010	-	-	< 2.00	7.1	-	-	-	-	-
22-Jun-21	< 0.050	18	0.054	< 0.0002	< 0.04	2.47	6.5	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	DISSOLVED METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-1											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
25-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	DISSOLVED METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-1												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
25-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA			
ORGANIC PARAMETERS (DETECTED)			
OVERBURDEN UNIT	Toluene (ug/l)	m,p-Xylene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	5	5	
<i>Monitoring Wells</i> MW-1	ANALYSIS METHOD		
17-Aug-99	EPA 8260	-	0
11-Nov-99	-	-	-
16-Feb-00	EPA 8260	-	0
18-May-00	EPA 8260	-	0
22-Aug-00	EPA 8260	-	0
13-Nov-00	-	-	-
16-May-01	-	-	-
10-Sep-01	EPA 8260	-	0
10-Dec-01	EPA 8260	-	0
11-Feb-02	EPA 8260	-	0
13-May-02	EPA 8260	-	0
13-Aug-02	-	-	-
04-Nov-02	EPA 8260	-	0
18-Feb-03	-	-	-
06-May-03	-	-	-
08-Aug-03	-	-	-
28-Oct-03	-	-	-
27-Jan-04	-	-	-
14-Apr-04	-	-	-
12-Jul-04	EPA 8260	2	3
05-Oct-04	EPA 8260	-	0
18-Jan-05	-	-	-
05-Apr-05	-	-	-
02-Aug-05	-	-	-
01-Nov-05	EPA 8260	-	0
14-Feb-06	EPA 8260	-	0
18-Apr-06	-	-	-
25-Jul-06	-	-	-
17-Oct-06	-	-	-
18-Jan-07	-	-	-
03-Apr-07	EPA 8260	-	0
10-Jul-07	-	-	-
16-Oct-07	-	-	-
28-Mar-08	-	-	-
30-Jun-09	-	-	-
14-Jul-09	-	-	-
06-Oct-09	EPA 8260	< 5	0
25-Jan-10	EPA 8260	< 5	0
19-Apr-11	-	-	-
31-Jul-12	-	-	-
12-Nov-13	EPA 8260	< 1	0
31-Mar-15	-	-	-
18-May-16	-	-	-
18-Jul-17	EPA 8260	< 1	0
12-Dec-18	-	-	-
20-Mar-20	-	-	-
22-Jun-21	EPA 8260	< 1	0

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP.	Eh	pH	SP.	TURB.	ALK.	HARD.	TDS	Cl	SO4	
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	COLOR (mg/l (Units) CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)	
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	500	250	250	
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	61	107.0	6.6	2100	29.0	500	810	874	1140	220	11
11-Nov-99	48	0.0	7.0	2100	17.3	-	906	877	1227	217	27
16-Feb-00	43	-15.0	7.1	1910	43.5	300	828	879	1090	195	13
18-May-00	53	-70.0	7.1	1840	22.0	100	896	827	1270	203	18
22-Aug-00	64	52.0	7.3	1725	18.9	-	817	815	1150	194	19
13-Nov-00	53	41.0	7.2	1971	21.9	-	1940	795	1150	193	22
16-May-01	48	6.0	7.6	1940	17.0	-	851	849	1200	185	24
10-Sep-01	56	7.3	6.7	965	79.8	28	910	740	1100	150	19
10-Dec-01	53	1.3	6.7	915	81.5	-	850	630	1100	170	41
11-Feb-02	46	10.1	6.7	1126	39.8	-	770	670	1200	150	43
13-May-02	51	6.3	6.8	633	31.0	-	810	690	1000	180	44
13-Aug-02	58	7.4	6.7	513	14.3	-	750	750	1100	170	29
04-Nov-02	53	0.9	7.4	1142	18.4	60	800	630	1100	130	25
18-Feb-03	50	13.1	6.6	836	45.1	-	930	750	1100	150	32
06-May-03	51	13.5	6.7	704	7.1	-	730	640	1100	130	34
08-Aug-03	69	64.1	6.3	618	28.3	-	790	740	1100	160	30
28-Oct-03	53	22.4	6.7	911	13.5	-	950	710	1100	160	6
27-Jan-04	51	10.2	6.9	932	15.7	-	830	610	1100	180	52
14-Apr-04	48	27.0	6.7	933	8.1	-	670	660	1140	120	49
12-Jul-09	55	-	6.3	815	6.0	7	880	700	1100	160	53
05-Oct-04	58	2.0	6.6	745	8.8	-	800	720	1190	137	47
18-Jan-05	51	37.8	6.5	1019	18.8	-	300	620	1120	301	47
05-Apr-05	47	28.2	7.0	920	16.4	-	810	690	942	130	48
02-Aug-05	58	61.3	6.5	871	0.4	-	850	590	1100	143	57
01-Nov-05	56	20.0	6.7	660	8.4	10	740	660	1220	108	38
14-Feb-06	51	65.8	6.7	654	17.5	9	940	680	998	97	55
18-Apr-06	51	43.7	6.7	532	6.9	-	690	610	795	99	43
25-Jul-06	59	54.9	6.0	524	3.9	-	710	720	1040	127	41
17-Oct-06	55	26.6	6.9	508	5.3	-	770	790	1040	156	34
18-Jan-07	49	50.3	6.7	620	2.9	-	730	750	985	152	38
03-Apr-07	48	51.2	6.8	541	7.6	5	590	620	1180	126	33
10-Jul-07	56	31.2	6.5	525	6.3	-	430	700	940	148	37
16-Oct-07	56	23.9	6.3	546	7.4	-	680	662	1030	147	39
28-Mar-08	46	21.1	6.7	440	15.6	-	640	613	797	116	27
30-Jun-09	67	-2.0	6.7	1140	6.0	-	640	736	1000	132	39
14-Jul-09	59	1.2	6.8	1175	5.2	-	680	752	1200	134	35
06-Oct-09	56	2.4	6.8	1166	6.9	8	740	772	870	155	35
26-Jan-10	42	9.7	6.5	1320	6.9	6	780	725	970	151	40
19-Apr-11	49	10.2	6.5	882	10.7	-	670	645	900	128	39
31-Jul-12	75	15.8	6.8	933	20.3	-	660	692	920	141	33
12-Nov-13	50	166.0	6.8	1640	8.7	10	856	745	982	142	44
31-Mar-15	36	243.0	7.3	1710	11.6	-	791	680	933	140	33
18-May-16	53	480.0	6.8	1470	4.0	-	715	686	937	131	36
18-Jul-17	74	209.0	6.8	1520	6.0	30	721	738	1040	156	50
12-Dec-18	45	128.0	6.7	1628	5.8	-	655	742	1030	144	39
20-Mar-20	43	251.0	6.9	1140	1.8	-	519	515	774	73	26
22-Jun-21	63	68.0	7.0	1302	1.7	7	577	541	791	103	34

OVERBURDEN UNIT	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.0	0.05	10	2.0	-	-	-	-	0.001	0.200
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	< 1.0	12.70	< 0.01	< 0.05	0.21	1.71	33	7	9	0.004	< 0.010
11-Nov-99	< 1.0	-	-	< 0.05	0.16	< 1.00	34	4	12	< 0.004	-
16-Feb-00	< 1.0	10.40	< 0.01	< 0.05	0.11	< 1.00	22	4	9	0.011	< 0.010
18-May-00	< 1.0	14.00	< 0.01	< 0.05	< 0.10	< 1.00	34	3	12	< 0.000	< 0.010
22-Aug-00	< 1.0	11.60	< 0.01	< 0.05	< 0.10	1.00	20	5	11	< 0.000	< 0.010
13-Nov-00	< 2.0	-	-	< 0.20	< 0.50	1.87	< 20	4	10	0.008	-
16-May-01	1.0	-	-	< 0.10	< 0.10	1.99	21	5	10	0.005	-
10-Sep-01	-	10.00	< 0.01	< 0.20	< 0.50	1.10	33	< 4	11	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	32	< 4	260	0.008	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	26	7	10	< 0.005	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	30	5	10	< 0.005	-
13-Aug-02	< 2.0	-	-	< 0.20	< 0.50	0.60	24	5	10	< 0.005	-
04-Nov-02	< 0.2	9.50	< 0.01	< 0.20	< 0.50	0.60	21	< 4	10	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	0.60	24	4	9	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	28	5	9	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 58	7	11	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	0.80	29	5	9	< 0.005	-
27-Jan-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	61	< 4	10	< 0.005	-
14-Apr-04	-	-	-	-	-	6.00	46	-	9	-	-
12-Jul-09	< 0.2	12.00	< 0.01	< 0.2000	< 0.50	< 0.50	< 20	< 4	11	< 0.005	< 0.010
05-Oct-04	1.0	-	-	< 0.20	< 0.50	< 0.50	< 20	8	10	< 0.005	-
18-Jan-05	0.7	-	-	< 0.20	< 0.50	< 0.50	< 20	7	11	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	9	9	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	24	5	10	0.079	-
01-Nov-05	< 0.2	10.00	< 0.01	< 0.20	< 0.50	< 0.50	31	8	9	0.007	< 0.010
14-Feb-06	< 20.0	9.10	< 0.01	< 0.20	< 0.50	< 0.50	< 20	6	8	< 0.005	< 0.010
18-Apr-06	< 20.0	-	-	< 0.20	< 0.50	< 0.50	22	8	8	< 0.005	-
25-Jul-06	< 2.0	-	-	< 0.20	< 0.50	< 0.50	46	7	9	< 0.005	-
17-Oct-06	< 2.0	-	-	< 0.20	< 0.50	< 0.50	37	5	10	< 0.005	-
18-Jan-07	< 2.0	-	-	0.21	< 0.50	< 0.50	25	6	10	< 0.005	-
03-Apr-07	< 2.0	9.20	< 0.01	< 0.20	< 0.50	< 0.50	< 20	6	8	< 0.005	< 0.010
10-Jul-07	< 2.0	-	-	< 0.20	< 0.50	0.95	36	< 4	9	0.007	-
16-Oct-07	< 2.0	-	-	< 0.02	< 0.50	0.72	< 20	7	9	< 0.005	-
28-Mar-08	< 20.0	-	-	< 0.20	< 0.50	0.80	20	< 4	8	< 0.005	-
30-Jun-09	< 0.2	-	-	< 0.20	< 0.50	0.93	34	< 4	8	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	0.63	29	< 4	6	< 0.005	-
06-Oct-09	< 2.0	13.70	< 0.01	< 0.20	< 0.50	0.75	33	< 4	9	0.007	< 0.010
26-Jan-10	0.5	11.80	< 0.01	< 0.20	< 0.50	0.97	29	< 4	7	0.005	< 0.010
19-Apr-11	< 0.8	-	-	< 0.05	< 0.50	0.52	31	< 4	8	< 0.005	-
31-Jul-12	< 80.0	-	-	0.08	< 0.50	1.15	< 20	< 4	12	< 0.005	-
12-Nov-13	0.4	14.20	< 0.01	< 0.05	0.12	0.77	26	2	9	< 0.010	< 0.010
31-Mar-15	< 1.0	-	-	< 0.05	0.11	0.66	25	4	8	< 0.010	-
18-May-16	0.9	-	-	< 0.05	0.24	0.85	24	3	9	< 0.010	-
18-Jul-17	< 1.0	15.40	-	< 0.05	0.25	0.99	22	< 2	11	< 0.010	< 0.010
12-Dec-18	< 1.0	-	-	< 1.00	0.31	1.01	29	4	12	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	0.48	0.76	16	< 2	7	< 0.005	-
22-Jun-21	< 1.0	11.30	< 0.01	< 1.00	0.57	1.11	20	< 2	9	< 0.005	< 0.005

OVERBURDEN UNIT	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	TOTAL METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.00	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	7.62	< 0.050	0.002	0.279	< 0.002	< 0.005	220	< 0.01	< 0.01	< 0.02	15.60
11-Nov-99	-	-	-	-	-	< 0.005	224	-	-	-	2.47
16-Feb-00	0.76	< 0.050	0.046	0.243	< 0.002	< 0.005	227	< 0.01	< 0.01	< 0.02	18.40
18-May-00	0.23	< 0.050	0.016	0.199	< 0.002	< 0.005	212	< 0.01	0.02	0.02	4.94
22-Aug-00	< 0.08	< 0.050	0.007	0.214	< 0.002	< 0.005	206	< 0.01	< 0.01	< 0.02	2.03
13-Nov-00	-	-	-	-	-	< 0.005	201	-	-	-	2.08
16-May-01	-	-	-	-	-	< 0.005	218	-	-	-	2.73
10-Sep-01	2.40	< 0.003	0.026	< 0.300	< 0.005	0.006	190	< 0.05	< 0.05	< 0.02	7.80
10-Dec-01	-	-	-	-	-	< 0.005	160	-	-	-	4.80
11-Feb-02	-	-	-	-	-	< 0.005	170	-	-	-	2.80
13-May-02	-	-	-	-	-	0.006	180	-	-	-	3.00
13-Aug-02	-	-	-	-	-	< 0.005	200	-	-	-	2.20
04-Nov-02	0.60	< 0.003	0.032	< 0.300	< 0.005	< 0.005	160	< 0.05	< 0.05	0.04	4.10
18-Feb-03	-	-	-	-	-	0.006	190	-	-	-	3.60
06-May-03	-	-	-	-	-	0.006	160	-	-	-	2.30
08-Aug-03	-	-	-	-	-	0.006	190	-	-	-	1.50
28-Oct-03	-	-	-	-	-	< 0.005	180	-	-	-	1.90
27-Jan-04	-	-	-	-	-	< 0.005	160	-	-	-	2.70
14-Apr-04	-	-	-	-	-	-	170	-	-	-	1.90
12-Jul-09	0.22	< 0.003	0.023	0.200	< 0.005	< 0.005	180	0.01	0.06	0.06	1.80
05-Oct-04	-	-	-	-	-	< 0.005	180	-	-	-	2.40
18-Jan-05	-	-	-	-	-	< 0.005	150	-	-	-	1.70
05-Apr-05	-	-	-	-	-	< 0.005	180	-	-	-	2.40
02-Aug-05	-	-	-	-	-	0.005	150	-	-	-	2.20
01-Nov-05	0.13	< 0.003	0.021	< 0.300	< 0.005	< 0.005	170	< 0.05	0.05	< 0.02	2.30
14-Feb-06	0.28	< 0.003	0.019	< 0.300	< 0.005	< 0.005	180	< 0.05	0.13	0.08	4.30
18-Apr-06	-	-	-	-	-	< 0.005	160	-	-	-	1.10
25-Jul-06	-	-	-	-	-	0.005	190	-	-	-	1.10
17-Oct-06	-	-	-	-	-	< 0.005	210	-	-	-	1.50
18-Jan-07	-	-	-	-	-	< 0.005	190	-	-	-	2.60
03-Apr-07	< 0.05	< 0.003	0.011	< 0.300	< 0.005	< 0.005	160	< 0.05	< 0.05	< 0.02	1.10
10-Jul-07	-	-	-	-	-	< 0.005	180	-	-	-	2.40
16-Oct-07	-	-	-	-	-	< 0.005	169	-	-	-	5.10
28-Mar-08	-	-	-	-	-	< 0.005	160	-	-	-	3.20
30-Jun-09	-	-	-	-	-	< 0.005	189	-	-	-	1.18
14-Jul-09	-	-	-	-	-	< 0.005	195	-	-	-	3.01
06-Oct-09	0.50	< 0.030	< 0.010	0.229	< 0.003	< 0.005	200	< 0.01	< 0.02	< 0.01	2.63
26-Jan-10	0.12	< 0.030	< 0.010	0.184	< 0.003	< 0.005	183	< 0.01	< 0.02	< 0.01	1.27
19-Apr-11	-	-	-	-	-	< 0.005	165	-	-	-	1.10
31-Jul-12	-	-	-	-	-	< 0.005	174	-	-	-	15.90
12-Nov-13	< 0.20	< 0.010	< 0.010	0.220	0.004	< 0.005	191	< 0.01	< 0.05	< 0.03	1.30
31-Mar-15	-	-	-	-	-	< 0.002	166	-	-	-	1.20
18-May-16	-	-	-	-	-	< 0.002	179	-	-	-	0.22
18-Jul-17	< 0.20	< 0.020	< 0.015	0.210	< 0.002	< 0.002	189	< 0.004	< 0.004	< 0.01	0.91
12-Dec-18	-	-	-	-	-	< 0.005	188	-	-	-	1.39
20-Mar-20	-	-	-	-	-	< 0.005	136	-	-	-	0.13
22-Jun-21	< 0.10	< 0.060	< 0.010	0.181	< 0.003	< 0.005	142	< 0.01	< 0.05	< 0.02	0.27

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	TOTAL METALS											
OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
Monitoring Wells MW-2S												
17-Aug-99	0.009	79	3.13	< 0.0002	0.05	5.41	99.7	< 0.002	< 0.01	< 0.001	0.01	0.04
11-Nov-99	0.003	77	3.00	-	-	9.83	150.0	-	-	-	-	-
16-Feb-00	0.004	76	3.21	< 0.0002	0.04	2.99	85.8	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.003	72	3.33	< 0.0002	0.05	2.31	122.0	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	0.002	73	2.88	< 0.0002	0.04	3.00	92.4	< 0.002	< 0.01	< 0.001	< 0.01	0.13
13-Nov-00	0.003	71	2.84	-	-	3.92	123.0	-	-	-	-	-
16-May-01	0.001	74	3.39	-	-	2.40	107.0	-	-	-	-	-
10-Sep-01	0.002	64	2.60	< 0.0004	0.07	5.20	96.0	< 0.001	< 0.05	-	-	0.05
10-Dec-01	0.005	56	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.004	60	-	-	0.05	-	-	-	< 0.05	-	-	-
13-May-02	0.003	58	-	-	0.06	-	-	-	< 0.05	-	-	-
13-Aug-02	0.004	64	-	-	0.09	-	-	-	0.06	-	-	-
04-Nov-02	0.009	56	2.00	< 0.0004	0.11	3.20	75.0	< 0.050	< 0.05	< 0.003	< 0.30	0.03
18-Feb-03	0.004	67	-	-	0.05	-	-	-	< 0.05	-	-	-
06-May-03	0.002	58	-	-	0.05	-	-	-	< 0.05	-	-	-
08-Aug-03	0.003	64	-	-	0.09	-	-	-	< 0.05	-	-	-
28-Oct-03	0.003	63	-	-	0.04	-	-	-	< 0.05	-	-	-
27-Jan-04	0.003	53	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.001	59	-	-	0.05	-	-	-	-	-	-	-
12-Jul-09	0.004	60	2.60	0.0002	0.07	3.00	110.0	0.028	< 0.05	< 0.003	< 0.30	0.05
05-Oct-04	0.001	64	-	-	0.09	-	-	-	< 0.05	-	-	-
18-Jan-05	0.001	57	-	-	0.07	-	-	-	< 0.05	-	-	-
05-Apr-05	0.003	61	-	-	0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.004	50	-	-	0.04	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	58	2.40	< 0.0004	< 0.03	2.40	77.0	< 0.005	< 0.05	< 0.003	< 0.30	0.02
14-Feb-06	0.004	56	2.80	< 0.0004	< 0.03	2.20	76.0	< 0.005	< 0.05	0.017	< 0.30	0.03
18-Apr-06	0.010	52	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.006	60	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.005	67	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	65	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	54	2.30	< 0.0004	< 0.03	2.30	72.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	60	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.013	58	-	-	< 0.03	-	-	-	< 0.05	-	-	-
28-Mar-08	< 0.003	52	2.43	-	-	2.69	74.4	-	< 0.05	-	-	-
30-Jun-09	< 0.003	64	2.47	-	-	14.80	91.6	-	-	-	-	-
14-Jul-09	< 0.003	65	2.49	-	-	4.57	94.0	-	-	-	-	-
06-Oct-09	< 0.003	66	3.11	< 0.0002	< 0.03	5.82	102.0	< 0.005	< 0.01	< 0.010	< 0.03	0.01
26-Jan-10	< 0.003	65	3.17	< 0.0002	< 0.03	< 5.00	88.8	< 0.005	< 0.01	< 0.010	< 0.03	0.08
19-Apr-11	< 0.003	57	2.65	-	-	< 5.00	64.3	-	-	-	-	-
31-Jul-12	< 0.003	63	2.96	-	-	< 5.00	92.9	-	-	-	-	-
12-Nov-13	< 0.010	65	2.70	< 0.0002	< 0.04	< 5.00	89.2	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
31-Mar-15	< 0.010	64	2.80	-	-	2.20	67.1	-	-	-	-	-
18-May-16	< 0.010	58	2.90	-	-	3.40	81.0	-	-	-	-	-
18-Jul-17	< 0.010	65	2.80	< 0.0002	0.02	4.70	88.6	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	66	2.99	-	-	3.40	91.3	-	-	-	-	-
20-Mar-20	< 0.050	43	2.19	-	-	< 2.00	66.7	-	-	-	-	-
22-Jun-21	< 0.050	46	1.96	< 0.0002	< 0.04	2.40	75.3	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

OVERBURDEN UNIT	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	DISSOLVED METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2S											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-09	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-2S												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

		0 STEUBEN COUNTY 0 DLEY SOUTH LANDFILL 0INDWATER QUALITY DATA				
		ORGANIC PARAMETERS (DETECTED)				
OVERBURDEN UNIT		1,1-Dichloroethane (ug/l)	Chloroethane (ug/l)	Benzene (ug/l)	MTBE (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD		5	5	1	1	
Monitoring Wells						
MW-2S	ANALYSIS METHOD					
17-Aug-99	EPA 8260	0.006	-	0.001	0.001	0.007
11-Nov-99	-	-	-	-	-	-
16-Feb-00	EPA 8260	5	-	-	-	5
18-May-00	EPA 8260	8	7	2	2	17
22-Aug-00	EPA 8260	8	-	1	1	9
13-Nov-00	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-
10-Sep-01	EPA 8260	7	6	-	-	13
10-Dec-01	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-
04-Nov-02	EPA 8260	5	4	-	-	9
18-Feb-03	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-
12-Jul-09	EPA 8260	6	4	-	-	10
05-Oct-04	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-
01-Nov-05	EPA 8260	5	4	-	-	9
14-Feb-06	EPA 8260	5	< 3	-	-	5
18-Apr-06	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-
03-Apr-07	EPA 8260	4	3	-	-	8
10-Jul-07	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-
06-Oct-09	EPA 8260	4 J	4 J	< 5	-	8
26-Jan-10	EPA 8260	3 J	3 J	< 5	-	6
19-Apr-11	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-
12-Nov-13	EPA 8260	1	4	< 1	-	6
31-Mar-15	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-
18-Jul-17	EPA 8260	< 1	3	< 1	-	3
12-Dec-18	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-
22-Jun-21	EPA 8260	0.56 J	1.3	< 1	0.5 J	2

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	FIELD PARAMETERS					INORGANIC PARAMETERS					
	TEMP.	Eh	pH	SP. COND.	TURB.	COLOR	ALK.	HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	(Units)	(mg/l CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
<i>Monitoring Wells</i> MW-3											
17-Aug-99	63	113.0	6.7	1450	191.0	1000	708	657	824	93	7
11-Nov-99	51	-62.0	7.4	1400	168.0	-	654	685	788	97	13
16-Feb-00	45	-64.0	7.4	1200	29.2	750	511	686	687	78	21
18-May-00	53	-80.0	7.6	1040	28.0	500	565	547	647	49	22
22-Aug-00	57	13.0	7.8	963	26.5	1500	568	581	663	54	9
13-Nov-00	51	57.0	7.5	1143	31.5	-	535	583	641	53	29
16-May-01	49	-80.0	7.6	1396	120.0	-	620	630	748	65	5
10-Sep-01	57	15.5	6.5	833	279.0	300	730	590	810	81	< 5
10-Dec-01	52	5.2	6.6	718	-	5	640	560	910	97	12
11-Feb-02	46	14.3	6.7	743	-	36	550	510	520	57	9
13-May-02	49	0.0	6.9	366	-	220	460	420	520	56	15
13-Aug-02	65	12.1	6.7	412	83.5	-	730	610	870	87	< 5
04-Nov-02	51	-12.2	7.6	822	109.2	22	620	490	750	53	31
18-Feb-03	44	10.5	6.7	695	30.6	-	700	680	600	93	8
06-May-03	49	6.1	6.9	515	22.1	-	590	630	770	85	7
08-Aug-03	59	63.9	6.3	407	28.2	-	510	520	730	58	7
28-Oct-03	56	19.3	6.7	549	27.8	-	480	380	470	25	17
27-Jan-09	46	22.7	6.7	715	6.0	-	560	450	580	77	13
14-Apr-04	47	10.6	7.0	563	26.7	-	450	380	458	39	17
12-Jul-04	60	-	6.9	683	15.5	10	690	550	858	80	13
05-Oct-04	59	0.1	6.9	589	15.2	-	630	550	758	83	22
18-Jan-05	45	22.0	6.8	618	6.3	-	290	440	697	43	33
05-Apr-05	52	8.4	7.3	502	6.9	-	370	350	357	32	< 13
02-Aug-05	61	55.4	6.6	682	2.7	-	690	530	875	88	16
01-Nov-05	57	12.9	6.9	430	9.0	7	410	370	580	70	12
14-Feb-06	47	44.1	7.1	400	3.8	9	990	450	510	23	17
18-Apr-06	54	28.7	7.0	369	5.3	-	370	340	498	20	15
25-Jul-06	64	52.4	6.1	422	11.4	-	420	500	692	65	13
17-Oct-06	56	32.4	6.9	425	8.4	-	610	590	858	94	13
18-Jan-07	45	32.8	7.0	388	6.2	-	380	320	438	22	8
03-Apr-07	53	49.5	6.8	428	5.5	56	460	410	16400	54	9
10-Jul-07	63	20.8	6.8	526	7.0	-	420	720	890	127	11
16-Oct-07	58	16.9	6.5	459	5.4	-	570	584	896	91	7
28-Mar-08	47	13.3	6.8	386	6.9	-	520	584	577	83	< 10
30-Jun-09	57	-12.8	6.9	875	7.6	-	560	663	830	98	18
14-Jul-09	60	-0.7	6.8	1087	10.2	-	670	775	1100	152	7
06-Oct-09	57	5.5	6.7	925	13.9	30	640	675	1000	119	9
26-Jan-10	41	-0.1	6.7	878	17.2	8	480	510	600	52	14
19-Apr-11	44	-26.9	7.0	460	54.5	-	290	315	360	35	< 5
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-
12-Nov-13	51	75.0	6.7	740	105.8	20	301	303	372	28	26
31-Mar-15	39	-34.0	7.1	840	4.6	-	388	401	446	58	3
18-May-16	51	-61.0	6.4	1240	24.7	-	565	659	661	115	8
18-Jul-17	63	-50.0	6.8	1340	17.6	5	618	738	828	144	12
12-Dec-18	47	201.0	6.6	661	3.9	-	344	403	432	26	4
20-Mar-20	45	255.0	7.1	503	4.0	-	294	334	385	12	4
22-Jun-21	54	-10.0	6.9	1449	33.1	13	609	739	818	153	13

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.0	0.05	10	2.0	-	-	-	-	0.001	0.200
Monitoring Wells MW-3											
17-Aug-99	< 1.0	4.1	< 0.01	0.08	3.70	4.74	33	14	8	0.007	< 0.01
11-Nov-99	1.3	-	-	< 0.10	2.40	7.06	12	7	6	< 0.004	-
16-Feb-00	< 1.0	2.2	< 0.01	0.66	0.89	1.74	< 10	3	3	< 0.004	< 0.01
18-May-00	< 1.0	1.9	< 0.01	1.27	0.87	< 1.00	< 10	< 3	4	< 0.004	< 0.01
22-Aug-00	< 1.0	2.0	< 0.01	< 0.05	1.10	6.06	28	4	4	0.018	< 0.01
13-Nov-00	6.7	-	-	0.15	0.28	2.17	< 20	< 4	4	< 0.005	-
16-May-01	< 1.0	-	-	< 0.10	4.14	5.98	< 10	3	6	< 0.004	-
10-Sep-01	-	4.3	< 0.01	< 0.20	4.20	4.60	< 20	4	7	< 0.005	< 0.01
10-Dec-01	< 2.0	2.9	< 0.01	< 0.20	2.50	3.30	24	6	4	< 0.005	< 0.01
11-Feb-02	< 2.0	2.0	0.01	< 0.20	< 0.50	< 0.50	33	24	6	< 0.005	< 0.01
13-May-02	< 2.0	1.4	< 0.01	< 0.20	2.70	2.50	27	6	4	< 0.005	< 0.01
13-Aug-02	< 0.2	-	-	< 0.20	5.00	3.70	25	16	5	< 0.005	-
04-Nov-02	< 2.0	1.2	< 0.01	< 0.20	2.60	4.20	< 20	< 4	5	< 0.005	< 0.01
18-Feb-03	< 2.0	-	-	< 0.20	3.30	3.90	29	14	6	< 0.005	-
06-May-03	< 2.0	-	-	< 0.20	2.50	2.00	46	11	4	< 0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	2.50	2.00	26	8	6	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	1.20	23	5	4	< 0.005	-
27-Jan-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	43	11	4	< 0.005	-
14-Apr-04	-	-	-	-	-	0.79	13	7	4	-	-
12-Jul-04	< 0.2	2.20	< 0.01	0.30	< 1.26	1.74	< 20	10	5	0.007	< 0.01
05-Oct-04	< 0.5	-	-	< 0.20	< 0.50	1.11	< 20	6	4	0.007	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	33	8	5	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
01-Nov-05	< 0.2	1.30	< 0.01	< 0.20	< 0.50	< 0.50	< 20	7	4	0.005	< 0.01
14-Feb-06	< 0.2	0.61	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	3	< 0.005	-
25-Jul-06	< 2.0	-	-	< 0.20	< 0.50	1.32	< 20	7	4	< 0.005	-
17-Oct-06	< 2.0	-	-	< 0.20	< 0.50	< 0.50	21	8	5	< 0.005	-
18-Jan-07	< 2.0	-	-	0.21	< 0.50	< 0.50	< 20	5	5	< 0.005	-
03-Apr-07	< 2.0	1.40	< 0.01	< 0.20	1.02	1.10	32	6	3	< 0.005	< 0.01
10-Jul-07	< 20.0	-	-	< 0.20	< 0.50	2.57	24	< 4	5	< 0.005	-
16-Oct-07	< 20.0	-	-	< 0.20	0.67	1.18	< 20	12	3	< 0.005	-
28-Mar-08	< 200.0	-	-	< 0.20	< 0.50	1.40	< 20	6	4	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	0.59	1.24	22	6	4	< 0.005	-
14-Jul-09	< 20.0	-	-	< 0.20	1.13	2.07	21	7	< 3	< 0.005	-
06-Oct-09	< 2.0	2.14	< 0.01	< 0.20	0.96	1.64	< 20	7	4	< 0.005	< 0.01
26-Jan-10	< 0.2	1.22	< 0.01	< 0.20	< 0.50	0.81	< 20	5	< 3	< 0.005	< 0.01
19-Apr-11	< 80.0	-	-	0.28	< 0.50	1.25	< 20	4	< 3	< 0.005	-
31-Jul-12	Well Damaged	-	-	-	-	-	-	-	-	-	-
12-Nov-13	0.2	3.00	< 0.01	0.18	0.37	5.80	91	3	6	< 0.010	< 0.01
31-Mar-15	< 0.2	-	-	< 0.05	0.32	0.99	23	4	4	< 0.010	-
18-May-16	0.9	-	-	< 0.05	0.60	1.20	< 10	2	4	< 0.010	-
18-Jul-17	1.2	1.90	-	< 0.05	0.75	1.30	< 10	< 4	6	< 0.010	< 0.01
12-Dec-18	< 1.0	-	-	< 1.00	< 0.05	0.50	18	< 2	4	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	< 0.05	0.24	9	< 2	3	< 0.005	-
22-Jun-21	1.5	1.65	< 0.01	< 1.00	0.48	0.81	14	3	6	< 0.005	< 0.01

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
TOTAL METALS											
OVERBURDEN UNIT	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.000	[0.003]	0.005	-	0.05	-	0.20	0.3
<i>Monitoring Wells</i> MW-3											
17-Aug-99	0.64	< 0.050	0.026	0.237	< 0.002	< 0.005	151	< 0.01	< 0.01	< 0.02	15.90
11-Nov-99	-	-	-	-	-	< 0.005	157	-	-	-	16.30
16-Feb-00	0.75	< 0.050	0.003	0.177	< 0.002	< 0.005	153	< 0.01	< 0.01	< 0.02	7.42
18-May-00	1.14	< 0.050	0.004	0.148	< 0.002	< 0.005	125	< 0.01	< 0.01	< 0.02	4.82
22-Aug-00	0.33	< 0.050	0.004	0.185	< 0.002	< 0.005	132	< 0.01	< 0.01	< 0.02	6.53
13-Nov-00	-	-	-	-	-	< 0.005	134	-	-	-	4.93
16-May-01	-	-	-	-	-	< 0.005	152	-	-	-	58.80
10-Sep-01	5.20	< 0.003	0.020	0.300	< 0.005	< 0.005	140	< 0.05	0.10	0.02	47.00
10-Dec-01	1.20	< 0.003	0.010	< 0.300	< 0.005	0.005	130	< 0.05	0.09	< 0.02	34.00
11-Feb-02	0.38	< 0.003	0.010	< 0.300	< 0.005	0.005	120	< 0.05	0.07	< 0.02	27.00
13-May-02	0.75	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	96	< 0.05	0.06	< 0.02	13.00
13-Aug-02	-	-	-	-	-	0.007	150	-	-	-	29.00
04-Nov-02	36.00	< 0.003	0.011	0.500	< 0.005	0.010	100	0.08	0.20	0.46	82.00
18-Feb-03	-	-	-	-	-	0.007	160	-	-	-	49.00
06-May-03	-	-	-	-	-	0.006	150	-	-	-	26.00
08-Aug-03	-	-	-	-	-	0.006	120	-	-	-	15.00
28-Oct-03	-	-	-	-	-	< 0.005	92	-	-	-	3.60
27-Jan-09	-	-	-	-	-	< 0.005	110	-	-	-	14.00
14-Apr-04	-	-	-	-	-	-	86	-	-	-	5.00
12-Jul-04	0.44	< 0.003	0.008	0.200	< 0.005	< 0.005	130	0.01	0.10	< 0.02	9.00
05-Oct-04	-	-	-	-	-	< 0.005	120	-	-	-	2.60
18-Jan-05	-	-	-	-	-	< 0.005	96	-	-	-	1.60
05-Apr-05	-	-	-	-	-	< 0.005	81	-	-	-	3.40
02-Aug-05	-	-	-	-	-	< 0.005	120	-	-	-	2.00
01-Nov-05	0.12	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	90	< 0.05	0.06	0.04	4.30
14-Feb-06	0.19	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	110	< 0.05	0.06	0.09	1.80
18-Apr-06	-	-	-	-	-	< 0.005	76	-	-	-	1.40
25-Jul-06	-	-	-	-	-	< 0.005	110	-	-	-	4.60
17-Oct-06	-	-	-	-	-	< 0.005	130	-	-	-	4.20
18-Jan-07	-	-	-	-	-	< 0.005	76	-	-	-	0.73
03-Apr-07	0.07	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	95	< 0.05	< 0.05	< 0.02	4.00
10-Jul-07	-	-	-	-	-	< 0.005	170	-	-	-	17.00
16-Oct-07	-	-	-	-	-	< 0.005	133	-	-	-	2.82
28-Mar-08	-	-	-	-	-	< 0.005	134	-	-	-	9.68
30-Jun-09	-	-	-	-	-	< 0.005	148	-	-	-	6.78
14-Jul-09	-	-	-	-	-	< 0.005	178	-	-	-	15.30
06-Oct-09	0.18	< 0.030	< 0.010	0.240	< 0.003	< 0.005	159	< 0.01	< 0.02	< 0.01	8.41
26-Jan-10	< 0.10	< 0.030	< 0.010	0.143	< 0.003	< 0.005	116	< 0.01	< 0.02	< 0.01	3.02
19-Apr-11	-	-	-	-	-	< 0.005	78	-	-	-	6.57
31-Jul-12	Well Damaged	-	-	-	-	-	-	-	-	-	-
12-Nov-13	4.90	< 0.010	0.030	< 0.200	< 0.004	< 0.005	88	0.01	< 0.05	< 0.03	15.10
31-Mar-15	-	-	-	-	-	< 0.002	98	-	-	-	1.40
18-May-16	-	-	-	-	-	< 0.002	151	-	-	-	9.90
18-Jul-17	0.37	< 0.020	< 0.015	0.220	< 0.002	< 0.002	166	< 0.004	< 0.004	< 0.01	13.20
12-Dec-18	-	-	-	-	-	< 0.005	119	-	-	-	0.43
20-Mar-20	-	-	-	-	-	< 0.005	96	-	-	-	0.33
22-Jun-21	2.79	< 0.060	< 0.010	0.202	< 0.003	< 0.005	165	< 0.01	< 0.05	< 0.02	10.90

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-3												
17-Aug-99	0.008	68	4.45	< 0.0002	0.02	5.21	33.7	< 0.002	< 0.01	< 0.001	< 0.10	0.40
11-Nov-99	0.002	71	3.18	-	-	4.48	32.9	-	-	-	-	-
16-Feb-00	0.001	67	1.21	< 0.0002	< 0.01	2.45	22.0	< 0.002	< 0.01	< 0.001	< 0.10	0.79
18-May-00	0.011	57	1.03	< 0.0002	< 0.01	2.49	21.5	< 0.002	< 0.01	< 0.001	< 0.10	0.68
22-Aug-00	0.005	61	1.99	< 0.0002	0.01	3.37	25.2	< 0.002	< 0.05	< 0.001	< 0.10	0.91
13-Nov-00	0.005	60	0.56	-	-	2.95	25.2	-	-	-	-	-
16-May-01	0.035	61	4.14	-	-	5.56	30.0	-	-	-	-	-
10-Sep-01	0.004	58	4.90	< 0.0004	0.07	6.50	38.0	< 0.001	< 0.05	-	-	1.30
10-Dec-01	0.002	56	2.70	< 0.0004	0.04	5.80	< 0.003	< 0.005	< 0.05	< 0.003	< 0.30	0.90
11-Feb-02	0.002	50	2.00	< 0.0004	0.04	3.30	23.0	0.035	< 0.05	< 0.003	< 0.30	0.74
13-May-02	0.002	43	1.20	< 0.0004	< 0.03	2.90	25.0	< 0.005	< 0.05	< 0.003	< 0.30	0.78
13-Aug-02	0.002	60	-	-	0.07	-	-	-	< 0.05	-	-	-
04-Nov-02	0.075	56	2.70	< 0.0004	0.16	6.80	22.0	< 0.005	0.17	< 0.003	< 0.30	0.49
18-Feb-03	0.004	67	-	-	0.05	-	-	-	< 0.05	-	-	-
06-May-03	0.003	64	-	-	0.05	-	-	-	< 0.05	-	-	-
08-Aug-03	0.003	51	-	-	0.07	-	-	-	< 0.05	-	-	-
28-Oct-03	0.001	37	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-09	< 0.001	45	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	-	41	-	-	-	-	-	-	-	-	-	-
12-Jul-04	0.004	57	2.50	< 0.0004	0.04	3.80	31.0	0.028	< 0.05	< 0.003	< 0.30	0.13
05-Oct-04	0.002	61	-	-	0.05	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	48	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	< 0.001	36	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.002	56	-	-	0.04	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	34	1.40	< 0.0004	< 0.03	2.50	13.0	< 0.005	< 0.05	< 0.003	< 0.30	0.06
14-Feb-06	0.001	44	0.94	< 0.0004	< 0.03	1.80	14.0	< 0.005	< 0.05	< 0.010	< 0.30	0.10
18-Apr-06	< 0.001	37	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	54	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	64	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	42	1.20	< 0.0004	< 0.03	1.90	15.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	73	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.007	61	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	60	2.37	-	-	2.94	24.4	-	-	-	-	-
30-Jun-09	< 0.003	71	1.93	-	-	3.36	25.1	-	-	-	-	-
14-Jul-09	< 0.003	80	3.15	-	-	3.97	31.6	-	-	-	-	-
06-Oct-09	< 0.003	68	2.51	< 0.0002	< 0.03	< 5.00	24.2	< 0.005	< 0.01	< 0.010	< 0.03	0.08
26-Jan-10	< 0.003	54	1.30	< 0.0002	< 0.03	< 5.00	17.1	< 0.005	< 0.01	< 0.010	< 0.03	0.04
19-Apr-11	< 0.003	29	1.05	-	-	< 5.00	8.4	-	-	-	-	-
31-Jul-12	Well Damaged											
12-Nov-13	< 0.010	20	6.70	< 0.0002	< 0.04	< 5.00	27.9	< 0.010	< 0.01	< 0.020	< 0.05	0.25
31-Mar-15	< 0.010	38	1.10	-	-	2.00	10.8	-	-	-	-	-
18-May-16	< 0.010	69	2.90	-	-	3.20	26.4	-	-	-	-	-
18-Jul-17	< 0.010	79	3.30	< 0.0002	< 0.01	3.50	29.3	< 0.025	< 0.01	< 0.020	< 0.01	0.04
12-Dec-18	< 0.050	26	0.21	-	-	< 2.00	7.3	-	-	-	-	-
20-Mar-20	< 0.050	23	0.28	-	-	< 2.00	6.0	-	-	-	-	-
22-Jun-21	< 0.050	79	2.81	< 0.0002	< 0.04	3.93	31.3	< 0.010	< 0.01	< 0.010	< 0.05	0.34

OVERBURDEN UNIT	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	DISSOLVED METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-3											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-09	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	< 0.005	72	-	-	-	0.17
31-Jul-12	Well Damaged		-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.20	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	80	< 0.01	< 0.05	< 0.03	0.60
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	DISSOLVED METALS											
OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
Monitoring Wells MW-3												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	< 0.003	27	0.94	-	-	< 5.00	8.7	-	-	-	-	-
31-Jul-12	Well Damaged			-	-			-	-	-	-	-
12-Nov-13	< 0.010	18	4.10	< 0.0002	< 0.04	< 5.00	27.8	< 0.010	< 0.01	< 0.020	< 0.05	0.02
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA				
ORGANIC PARAMETERS (DETECTED)				
OVERBURDEN UNIT	Benzene (ug/l) Toluene (ug/l)			SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	1	5		
<i>Monitoring Wells</i>	ANALYSIS METHOD			
MW-3				
17-Aug-99	EPA 8260	0.001	0.006	0
11-Nov-99	-	-	-	-
16-Feb-00	EPA 8260	0.8	-	1
18-May-00	EPA 8260	0.8	-	1
22-Aug-00	EPA 8260	-	-	0
13-Nov-00	-	-	-	-
16-May-01	-	-	-	-
10-Sep-01	EPA 8260	-	-	0
10-Dec-01	EPA 8260	-	-	0
11-Feb-02	EPA 8260	-	-	0
13-May-02	EPA 8260	-	-	0
13-Aug-02	-	-	-	-
04-Nov-02	EPA 8260	-	-	0
18-Feb-03	-	-	-	-
06-May-03	-	-	-	-
08-Aug-03	-	-	-	-
28-Oct-03	-	-	-	-
27-Jan-09	-	-	-	-
14-Apr-04	-	-	-	-
12-Jul-04	EPA 8260	-	-	0
05-Oct-04	-	-	-	-
18-Jan-05	-	-	-	-
05-Apr-05	-	-	-	-
02-Aug-05	-	-	-	-
01-Nov-05	EPA 8260	-	-	0
14-Feb-06	EPA 8260	-	-	0
18-Apr-06	-	-	-	-
25-Jul-06	-	-	-	-
17-Oct-06	-	-	-	-
18-Jan-07	-	-	-	-
03-Apr-07	EPA 8260	-	-	0
10-Jul-07	-	-	-	-
16-Oct-07	-	-	-	-
28-Mar-08	-	-	-	-
30-Jun-09	-	-	-	-
14-Jul-09	-	-	-	-
06-Oct-09	EPA 8260	< 5	< 5	0
26-Jan-10	EPA 8260	< 5	< 5	0
19-Apr-11	-	-	-	-
31-Jul-12	Well Damaged	-	-	-
12-Nov-13	EPA 8260	< 1	< 1	0
31-Mar-15	-	-	-	-
18-May-16	-	-	-	-
18-Jul-17	EPA 8260	< 1	< 1	0
12-Dec-18	-	-	-	-
20-Mar-20	-	-	-	-
22-Jun-21	EPA 8260	< 1	< 1	0

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

	FIELD PARAMETERS					INORGANIC PARAMETERS					
OVERBURDEN UNIT	TEMP.	Eh	pH	SP.	TURB.	ALK.		HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	COLOR (mg/l Units)	CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
Monitoring Wells MW-4											
17-Aug-99	59	195.0	7.1	950	17.3	750	557	536	602	9	9
11-Nov-99	51	74.0	7.5	860	69.0	-	448	497	501	9	18
16-Feb-00	46	3.0	7.9	840	39.4	500	472	436	458	7	16
18-May-00	55	-69.0	7.0	700	40.0	167	394	374	410	8	16
22-Aug-00	58	106.0	7.9	728	18.3	-	465	474	520	9	18
13-Nov-00	52	47.0	7.5	810	12.6	-	425	431	446	43	29
16-May-01	47	19.0	8.1	822	8.3	-	372	444	476	8	18
10-Sep-01	56	12.6	6.6	561	58.1	28	490	460	620	8	18
10-Dec-01	51	-8.1	6.8	492	58.6	-	490	420	720	8	19
11-Feb-02	47	8.3	6.8	590	127.2	-	480	390	500	8	20
13-May-02	49	-1.4	6.9	321	35.7	-	480	410	550	9	20
13-Aug-02	63	5.0	6.7	287	9.6	-	570	430	650	8	17
04-Nov-02	54	-6.4	7.5	684	263.0	24	530	490	600	9	17
18-Feb-03	46	6.6	6.7	519	6.8	-	640	490	630	9	18
06-May-03	51	4.0	6.9	428	4.2	-	540	440	590	8	16
08-Aug-03	67	75.9	6.1	336	2.4	-	500	490	610	8	19
28-Oct-03	54	29.4	6.6	541	2.7	-	540	410	520	7	17
27-Jan-04	46	25.5	6.6	553	32.6	-	530	380	540	10	16
14-Apr-04	44	22.7	6.7	505	4.0	-	440	320	308	8	17
12-Jul-04	58	15.3	6.6	536	3.3	10	510	440	520	19	13
05-Oct-04	57	0.5	7.0	467	5.9	-	470	420	532	7	17
18-Jan-05	46	39.4	6.5	542	2.6	-	400	370	562	9	28
05-Apr-05	47	32.5	6.9	435	3.6	-	400	310	320	7	13
02-Aug-05	60	58.4	6.5	582	2.5	-	600	460	565	44	17
01-Nov-05	58	26.2	6.6	471	4.4	5	540	470	592	7	14
14-Feb-06	49	64.8	6.6	468	3.7	7	710	580	507	6	14
18-Apr-06	49	42.1	6.8	392	2.9	-	540	470	517	6	14
25-Jul-06	64	71.3	5.8	398	2.9	-	470	450	622	6	12
17-Oct-06	56	36.8	7.0	374	3.0	-	550	450	555	6	8
18-Jan-07	45	48.8	6.7	382	5.2	-	460	390	307	5	5
03-Apr-07	47	61.9	6.6	331	4.3	5	360	340	535	55	10
10-Jul-07	60	29.2	6.6	431	3.4	-	410	550	565	7	14
16-Oct-07	59	30.2	6.3	406	7.0	-	510	463	572	8	13
28-Mar-08	40	21.1	6.7	317	7.1	-	460	401	448	5	< 20
30-Jun-09	57	-8.8	6.8	389	3.5	-	300	266	350	2	14
14-Jul-09	59	-2.3	6.9	442	3.4	-	360	366	500	4	9
06-Oct-09	58	8.5	6.7	387	7.3	54	290	232	340	3	8
26-Jan-10	43	17.4	6.3	343	6.5	28	190	133	170	4	< 5
19-Apr-11	43	-2.2	6.5	374	3.9	-	170	161	210	3	< 5
31-Jul-12	62	-24.9	7.4	695	8.6	-	520	546	570	4	9
12-Nov-13	48	167.0	7.2	420	6.3	30	234	177	226	< 1	7
31-Mar-15	38	-16.0	6.9	380	5.5	-	209	161	195	1	5
18-May-16	50	77.0	7.1	370	4.0	-	211	210	218	1	4
18-Jul-17	61	118.0	6.8	680	4.9	5	445	412	458	2	9
12-Dec-18	50	167.0	6.6	408	5.7	-	206	227	239	< 2	3
20-Mar-20	46	177.0	6.9	243	1.6	-	120	125	153	< 2	6
22-Jun-21	54	156.0	6.7	556	2.4	12	311	308	333	< 2	7

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	INORGANIC PARAMETERS										
	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10.00	2.0	-	-	-	-	0.001	0.20
<i>Monitoring Wells</i> MW-4											
17-Aug-99	< 1.0	0.06	< 0.01	0.23	0.21	1.30	13	< 3	3	0.002	< 0.010
11-Nov-99	< 1.0	-	-	< 0.10	< 0.10	1.01	< 10	< 3	3	< 0.004	-
16-Feb-00	< 1.0	0.08	< 0.01	0.07	< 0.10	< 1.00	< 10	< 3	2	0.006	< 0.010
18-May-00	< 1.0	0.08	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
22-Aug-00	< 1.0	< 0.48	< 0.01	0.10	< 0.10	< 1.00	< 10	< 3	3	< 0.004	< 0.010
13-Nov-00	3.0	-	-	0.08	< 0.50	< 0.50	< 20	< 4	2	< 0.005	-
16-May-01	< 1.0	-	-	0.10	< 0.10	1.38	< 10	< 3	2	< 0.004	-
10-Sep-01	-	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	24	< 4	3	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	0.80	< 20	< 4	4	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	3.50	< 0.50	< 0.50	< 20	< 4	3	0.014	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	25	8	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	42	< 4	5	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	1.10	< 20	< 4	3	< 0.005	-
27-Jan-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	23	< 4	3	< 0.005	-
14-Apr-04	-	-	-	-	-	1.30	18		3	-	-
12-Jul-04	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	19	10	3	0.003	< 0.010
05-Oct-04	< 0.2	-	-	< 0.20	< 0.50	0.95	< 20	4	4	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	5	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	7	3	0.009	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	5	3	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
17-Oct-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	101	< 4	4	< 0.005	-
18-Jan-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	5	4	< 0.005	-
03-Apr-07	< 0.2	0.55	< 0.01	< 0.20	< 0.50	0.88	< 20	< 4	< 3	< 0.005	0.026
10-Jul-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 20.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	1.09	39	< 4	7	< 0.005	-
14-Jul-09	< 20.0	-	-	< 0.20	< 0.50	0.51	26	< 4	5	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	< 0.20	< 0.50	1.04	33	< 4	9	< 0.005	< 0.010
26-Jan-10	< 2.0	< 0.50	< 0.01	< 0.20	< 0.50	0.85	27	< 4	5	< 0.005	< 0.010
19-Apr-11	< 8.0	-	-	0.05	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
31-Jul-12	< 8.0	-	-	< 0.05	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
12-Nov-13	< 0.2	< 0.20	< 0.01	< 0.05	< 0.02	0.68	35	< 2	< 1	< 0.010	< 0.010
31-Mar-15	< 0.2	-	-	< 0.05	< 0.02	0.71	11	4	4	< 0.010	-
18-May-16	< 0.2	-	-	< 0.05	< 0.03	0.55	< 10	< 2	4	< 0.010	-
18-Jul-17	< 0.2	0.05	-	< 0.05	0.03	0.41	< 10	< 2	4	< 0.010	< 0.010
12-Dec-18	< 1.0	-	-	< 1.00	0.05	0.45	12	< 2	5	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	< 0.05	0.38	13	< 2	3	< 0.005	-
22-Jun-21	< 1.0	< 0.20	< 0.01	< 1.00	0.08	0.50	8	< 2	4	< 0.005	< 0.005

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	[0.003]	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-4											
17-Aug-99	2.32	< 0.050	< 0.010	0.099	< 0.002	< 0.005	150	< 0.01	< 0.01	< 0.02	4.03
11-Nov-99	-	-	-	-	-	< 0.005	142	-	-	-	1.07
16-Feb-00	8.69	< 0.050	0.007	0.130	< 0.002	< 0.005	124	< 0.01	< 0.01	< 0.02	16.40
18-May-00	0.66	< 0.050	0.100	0.492	< 0.002	< 0.005	61	< 0.01	< 0.01	< 0.02	1.08
22-Aug-00	4.22	< 0.050	0.003	0.117	< 0.002	< 0.005	132	0.01	< 0.01	< 0.02	7.40
13-Nov-00	-	-	-	-	-	< 0.005	122	-	-	-	4.71
16-May-01	-	-	-	-	-	< 0.005	127	-	-	-	0.32
10-Sep-01	2.20	< 0.003	0.023	< 0.300	< 0.005	0.006	130	< 0.05	< 0.05	< 0.02	3.90
10-Dec-01	-	-	-	-	-	< 0.005	120	-	-	-	8.80
11-Feb-02	-	-	-	-	-	< 0.005	110	-	-	-	1.00
13-May-02	-	-	-	-	-	< 0.005	120	-	-	-	6.60
13-Aug-02	-	-	-	-	-	0.005	120	-	-	-	2.60
04-Nov-02	1.50	< 0.003	0.015	< 0.300	< 0.005	< 0.005	140	< 0.05	< 0.05	0.45	2.60
18-Feb-03	-	-	-	-	-	< 0.005	140	-	-	-	0.17
06-May-03	-	-	-	-	-	< 0.005	120	-	-	-	0.34
08-Aug-03	-	-	-	-	-	< 0.005	150	-	-	-	0.92
28-Oct-03	-	-	-	-	-	< 0.005	120	-	-	-	0.32
27-Jan-04	-	-	-	-	-	< 0.005	110	-	-	-	0.58
14-Apr-04	-	-	-	-	-	-	92	-	-	-	0.35
12-Jul-04	0.65	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	130	< 0.05	< 0.05	< 0.02	1.10
05-Oct-04	-	-	-	-	-	0.010	120	-	-	-	0.64
18-Jan-05	-	-	-	-	-	< 0.005	110	-	-	-	0.30
05-Apr-05	-	-	-	-	-	< 0.005	88	-	-	-	0.48
02-Aug-05	-	-	-	-	-	< 0.005	130	-	-	-	0.32
01-Nov-05	0.28	0.010	0.011	< 0.300	< 0.005	< 0.005	130	< 0.05	< 0.05	< 0.02	0.69
14-Feb-06	0.23	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	170	< 0.05	< 0.05	< 0.02	0.45
18-Apr-06	-	-	-	-	-	< 0.005	130	-	-	-	0.39
25-Jul-06	-	-	-	-	-	< 0.005	130	-	-	-	0.23
17-Oct-06	-	-	-	-	-	< 0.005	130	-	-	-	0.26
18-Jan-07	-	-	-	-	-	< 0.005	110	-	-	-	0.21
03-Apr-07	0.18	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	99	< 0.05	< 0.05	< 0.02	0.37
10-Jul-07	-	-	-	-	-	< 0.005	150	-	-	-	1.10
16-Oct-07	-	-	-	-	-	< 0.005	132	-	-	-	0.30
28-Mar-08	-	-	-	-	-	< 0.005	126	-	-	-	0.80
30-Jun-09	-	-	-	-	-	< 0.005	87	-	-	-	1.36
14-Jul-09	-	-	-	-	-	< 0.005	114	-	-	-	1.39
06-Oct-09	0.13	< 0.030	< 0.010	0.074	< 0.003	< 0.005	79	< 0.01	< 0.02	< 0.01	1.42
26-Jan-10	< 0.10	< 0.030	< 0.010	0.067	< 0.003	< 0.005	53	< 0.01	< 0.02	< 0.01	0.76
19-Apr-11	-	-	-	-	-	< 0.005	54	-	-	-	0.26
31-Jul-12	-	-	-	-	-	< 0.005	158	-	-	-	1.03
12-Nov-13	0.26	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	61	< 0.01	< 0.05	< 0.03	0.81
31-Mar-15	-	-	-	-	-	< 0.002	53	-	-	-	1.40
18-May-16	-	-	-	-	-	< 0.002	69	-	-	-	0.49
18-Jul-17	0.32	< 0.020	< 0.015	0.078	< 0.002	< 0.002	126	< 0.004	< 0.004	< 0.01	0.46
12-Dec-18	-	-	-	-	-	< 0.005	73	-	-	-	0.41
20-Mar-20	-	-	-	-	-	< 0.005	42	-	-	-	< 0.10
22-Jun-21	< 0.10	< 0.060	< 0.010	0.051	< 0.003	< 0.005	99	< 0.01	< 0.05	< 0.02	0.22

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-4												
17-Aug-99	0.010	39	0.05	< 0.0002	< 0.01	2.74	10.1	< 0.002	< 0.01	< 0.001	< 0.10	< 0.00
11-Nov-99	0.003	35	0.05	-	-	2.20	9.3	-	-	-	-	-
16-Feb-00	0.007	31	0.15	< 0.0002	0.02	3.20	7.7	< 0.002	< 0.01	< 0.001	< 0.10	0.04
18-May-00	0.006	25	0.03	< 0.0002	< 0.01	1.36	7.8	< 0.002	< 0.01	< 0.001	< 0.10	< 0.02
22-Aug-00	0.008	35	0.09	< 0.0002	< 0.01	2.68	9.4	< 0.002	< 0.01	< 0.001	< 0.10	0.03
13-Nov-00	0.004	31	-	-	-	2.97	10.2	-	-	-	-	-
16-May-01	0.004	31	0.03	-	-	1.44	8.2	-	-	-	-	-
10-Sep-01	0.002	33	0.09	< 0.0004	0.05	2.70	12.0	< 0.001	0.21	-	-	0.05
10-Dec-01	0.005	30	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.003	27	-	-	< 0.03	-	-	-	0.14	-	-	-
13-May-02	0.005	28	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-Aug-02	0.004	30	-	-	0.05	-	-	-	< 0.05	-	-	-
04-Nov-02	0.007	34	0.14	< 0.0004	0.04	2.30	11.0	< 0.005	< 0.05	< 0.003	< 0.30	0.14
18-Feb-03	< 0.001	35	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	32	-	-	< 0.03	-	-	-	< 0.05	-	-	-
08-Aug-03	< 0.001	31	-	-	0.07	-	-	-	< 0.05	-	-	-
28-Oct-03	0.003	28	-	-	< 0.03	-	-	-	0.10	-	-	-
27-Jan-04	0.002	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.002	23	-	-	-	-	-	-	-	-	-	-
12-Jul-04	0.002	30	0.22	0.0000	0.05	1.80	9.7	0.014	< 0.05	< 0.003	< 0.30	0.05
05-Oct-04	< 0.001	29	-	-	0.06	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.003	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.001	32	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	32	0.82	< 0.0004	< 0.03	1.60	7.3	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.003	39	0.76	< 0.0004	< 0.03	2.10	8.8	< 0.005	< 0.05	0.009	< 0.30	< 0.01
18-Apr-06	0.001	33	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	30	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.003	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	23	0.83	< 0.0004	< 0.03	0.74	6.5	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	39	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.008	33	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	21	0.97	-	-	1.65	16.0	-	-	-	-	-
30-Jun-09	< 0.003	12	0.64	-	-	1.45	14.0	-	-	-	-	-
14-Jul-09	< 0.003	19	0.76	-	-	1.53	9.7	-	-	-	-	-
06-Oct-09	< 0.003	9	0.56	< 0.0002	< 0.03	< 5.00	15.8	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
26-Jan-10	< 0.003	< 5	0.14	< 0.0002	< 0.03	< 5.00	6.2	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
19-Apr-11	< 0.003	7	0.26	-	-	< 5.00	6.0	-	-	-	-	-
31-Jul-12	< 0.003	37	1.79	-	-	< 5.00	9.3	-	-	-	-	-
12-Nov-13	< 0.010	6	0.18	< 0.0002	< 0.04	< 5.00	10.3	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
31-Mar-15	< 0.010	7	0.55	-	-	0.84	6.0	-	-	-	-	-
18-May-16	< 0.010	9	0.18	-	-	1.00	3.5	-	-	-	-	-
18-Jul-17	< 0.010	24	0.51	< 0.0002	< 0.01	1.50	6.4	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	11	0.39	-	-	< 2.00	3.3	-	-	-	-	-
20-Mar-20	< 0.050	5	0.03	-	-	< 2.00	3.2	-	-	-	-	-
22-Jun-21	< 0.050	15	0.24	< 0.0002	< 0.04	< 2.00	3.7	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA

DISSOLVED METALS

[illegible]

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	DISSOLVED METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-4												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA		
ORGANIC PARAMETERS (DETECTED)		
OVERBURDEN UNIT	Toluene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	5	
<i>Monitoring Wells</i> MW-4	ANALYSIS METHOD	
17-Aug-99	EPA 8260 -	0
11-Nov-99	- -	-
16-Feb-00	EPA 8260 -	0
18-May-00	EPA 8260 -	0
22-Aug-00	EPA 8260 -	0
13-Nov-00	- -	-
16-May-01	- -	-
10-Sep-01	EPA 8260 -	0
10-Dec-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
13-Aug-02	- -	-
04-Nov-02	EPA 8260 -	0
18-Feb-03	- -	-
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
27-Jan-04	- -	-
14-Apr-04	- -	-
12-Jul-04	EPA 8260 -	0
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 < 5	0
14-Feb-06	EPA 8260 < 5	0
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 8	8
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 5	0
26-Jan-10	EPA 8260 < 5	0
19-Apr-11	- -	-
31-Jul-12	- -	-
12-Nov-13	EPA 8260 < 1	0
31-Mar-15	- -	-
18-May-16	- -	-
18-Jul-17	EPA 8260 < 1	0
12-Dec-18	- -	-
20-Mar-20	- -	-
22-Jun-21	EPA 8260 < 1	0

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

	FIELD PARAMETERS					INORGANIC PARAMETERS					
OVERBURDEN UNIT	TEMP.	Eh	pH	SP. COND.	TURB.	ALK.		HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	COLOR (mg/l Units)	CaCO3)	CaCO3)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
Monitoring Wells GW-1											
17-Aug-99	56	162	7.56	575	4.9	500	301	282	375	2	60
11-Nov-99	49	72	7.21	610	8.9	-	344	304	344	2	51
16-Feb-00	47	10	7.66	590	23.6	75	319	304	340	< 1	44
18-May-00	50	-72	7.99	550	13.0	100	304	321	357	2	31
22-Aug-00	53	105	8	568	12.1	-	300	287	385	< 1	< 5
13-Nov-00	51	88	8.14	606	13.5	-	295	290	326	2	35
16-May-01	47	25	8.33	582	8.4	-	291	289	337	2	27
11-Sep-01	55	18.6	6.94	378	49.8	21	320	250	370	1	53
10-Dec-01	51	-45.9	7.48	335	4.6	-	330	280	370	1	23
11-Feb-02	49	-30.7	7.43	439	17.8	-	340	240	340	2	33
13-May-02	49	-40.9	7.61	233	6.5	-	320	250	180	2	28
13-Aug-02	64	-46.4	7.67	170	0.7	-	320	280	390	< 1	27
04-Nov-02	52	-62	7.98	461	13.8	8	340	300	380	2	29
18-Feb-03	48	-44.3	7.64	312	1.2	-	350	240	430	1	23
06-May-03	51	-43.1	7.74	262	0.7	-	290	240	280	< 1	23
08-Aug-03	59	21.8	7.03	229	2.2	-	330	280	430	2	19
28-Oct-03	54	17.6	7.37	401	1.7	-	360	280	360	1	31
27-Jan-04	44	-26.3	7.53	410	6.0	-	320	240	380	< 1	25
14-Apr-09	47	-27.2	7.6	410	1.9	-	320	220	370	-	24
12-Jul-04	58	-	7.3	393	1	5	330	250	338	2	22
05-Oct-04	55	-33.4	7.5	356	2.0	-	350	280	387	3	26
18-Jan-05	47	-15.4	7.5	413	1.0	-	460	240	410	2	36
05-Apr-05	51	-16.7	7.8	369	0.7	-	310	260	262	1	22
02-Aug-05	56	11.4	7.4	388	0.3	-	350	250	332	46	24
01-Nov-05	56	-28.7	7.6	354	0.9	5	320	250	415	2	21
14-Feb-06	47	17.0	7.5	336	3.5	5	520	260	322	1	25
18-Apr-06	50	-11.6	7.7	291	1.8	-	360	250	300	2	25
25-Jul-06	59	10.3	6.8	287	0.7	-	340	250	345	2	18
17-Oct-06	55	-10.5	7.6	283	1.5	-	310	1000	360	2	15
18-Jan-07	46	-4.4	7.7	300	0.7	-	290	240	425	2	12
03-Apr-07	51	9.9	7.5	292	0.8	5	320	230	405	4	16
10-Jul-07	56	-22.2	7.5	298	1.0	-	300	270	293	4	18
16-Oct-07	56	-13.8	7.0	294	2.2	-	340	251	380	2	22
28-Mar-08	44	-38.1	7.8	269	2.9	-	300	276	277	2	16
30-Jun-09	53	-65.6	7.9	385	1.2	-	260	289	470	3	18
14-Jul-09	54	-48.7	7.7	452	1.4	-	270	328	330	2	20
06-Oct-09	55	-43.8	7.6	396	0.5	14	300	283	350	2	20
26-Jan-10	45	-37.4	7.3	478	4.6	6	280	273	280	< 1	22
19-Apr-11	45	-56.8	7.6	435	2.1	-	200	261	270	2	17
31-Jul-12	61	-35.3	7.7	262	4.8	-	260	241	290	2	16
12-Nov-13	48	175.0	7.8	520	13.9	10	256	268	307	1	19
31-Mar-15	41	-64.0	8.1	450	3.5	-	284	229	275	1	15
18-May-16	47	15.0	7.7	480	0.8	-	267	239	258	1	15
18-Jul-17	58	116.0	7.7	480	2.7	5	275	256	275	1	15
12-Dec-18	47	135.0	7.2	499	2.1	-	247	270	295	< 2	13
20-Mar-20	47	264.0	7.7	519	7.7	-	274	271	316	< 2	17
22-Jun-21	49	156.0	7.6	790	0.6	5	258	235	287	< 2	13

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
INORGANIC PARAMETERS											
OVERBURDEN UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10.00	2.0	-	-	-	-	0.001	0.200
<i>Monitoring Wells GW-1</i>											
17-Aug-99	< 1.0	< 0.50	< 0.01	0.16	0.18	1.27	< 20	< 4	1	< 0.005	< 0.010
11-Nov-99	< 1.0	-	-	0.08	< 0.50	1.72	< 20	< 4	2	< 0.005	-
16-Feb-00	< 1.0	0.07	< 0.01	0.14	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
18-May-00	< 1.0	0.06	< 0.01	0.68	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
22-Aug-00	< 1.0	0.16	< 0.01	0.56	< 0.10	< 1.00	< 10	< 3	2	< 0.004	< 0.010
13-Nov-00	1.3	-	-	0.69	< 0.50	< 0.50	< 20	< 4	2	< 0.005	-
16-May-01	< 1.0	-	-	1.26	< 0.10	1.23	< 10	< 3	2	< 0.004	-
11-Sep-01	-	< 0.50	< 0.01	0.50	< 0.50	< 0.50	< 20	< 4	2	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	0.30	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	0.80	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	1.00	< 0.50	< 0.50	< 20	< 4	< 3	0.009	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	4.20	< 20	< 4	4	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	0.50	< 0.50	0.60	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	0.70	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	0.70	< 0.50	1.20	20	< 4	< 3	< 0.005	-
28-Oct-03	< 0.2	-	-	0.70	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
27-Jan-04	< 0.2	-	-	0.90	< 0.50	< 0.50	21	< 4	< 3	< 0.005	-
14-Apr-09	-	-	-	0.60	-	-	12	-	-	-	-
12-Jul-04	< 0.2	< 0.50	< 0.01	0.50	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
05-Oct-04	< 0.2	-	-	0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-05	< 0.2	-	-	0.40	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.51	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	0.46	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	0.46	< 0.50	< 0.50	< 20	6	< 3	0.007	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	0.52	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	0.59	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	0.50	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
17-Oct-06	< 0.2	-	-	0.72	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-07	< 0.2	-	-	0.90	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
03-Apr-07	< 0.2	< 0.05	< 0.01	0.52	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
10-Jul-07	< 0.2	-	-	0.65	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	0.47	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 20.0	-	-	0.68	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
30-Jun-09	< 0.2	-	-	0.76	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 0.2	-	-	0.59	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	0.53	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
26-Jan-10	< 0.2	< 0.50	< 0.01	0.68	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
19-Apr-11	< 0.8	-	-	1.29	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 0.8	-	-	1.32	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
12-Nov-13	< 0.2	< 0.20	< 0.01	1.10	< 0.02	< 0.20	< 10	< 2	6	< 0.010	< 0.010
31-Mar-15	< 0.2	-	-	1.00	< 0.02	0.22	< 10	< 2	1	< 0.010	-
18-May-16	< 0.2	-	-	1.20	< 0.02	< 0.20	< 10	< 2	< 1	< 0.010	-
18-Jul-17	< 0.2	0.03	-	1.30	< 0.02	< 0.20	< 10	< 2	< 1	< 0.010	< 0.010
12-Dec-18	< 1.0	-	-	1.20	< 0.05	< 0.20	< 5	< 2	1	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	< 0.05	< 0.20	< 5	< 2	< 1	< 0.005	-
22-Jun-21	< 1.0	< 0.20	< 0.01	1.10	< 0.05	0.22	< 5	< 2	1	< 0.005	< 0.005

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.000	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-1											
17-Aug-99	0.49	< 0.050	< 0.002	0.046	< 0.002	< 0.005	76	< 0.01	< 0.01	< 0.02	0.45
11-Nov-99	-	-	-	-	-	< 0.005	79	-	-	-	0.77
16-Feb-00	1.36	< 0.050	< 0.002	0.071	< 0.002	< 0.005	79	< 0.01	< 0.01	< 0.02	1.24
18-May-00	3.55	< 0.050	< 0.002	0.085	< 0.002	< 0.005	89	0.01	< 0.01	< 0.02	2.51
22-Aug-00	< 0.08	< 0.050	< 0.002	0.062	< 0.002	< 0.005	76	< 0.01	< 0.01	< 0.02	0.06
13-Nov-00	-	-	-	-	-	< 0.005	75	-	-	-	0.39
16-May-01	-	-	-	-	-	< 0.005	79	-	-	-	0.41
11-Sep-01	1.10	< 0.003	0.029	< 0.300	< 0.005	< 0.005	66	< 0.05	< 0.05	< 0.02	1.00
10-Dec-01	-	-	-	-	-	< 0.005	73	-	-	-	1.60
11-Feb-02	-	-	-	-	-	< 0.005	61	-	-	-	0.17
13-May-02	-	-	-	-	-	< 0.005	69	-	-	-	1.10
13-Aug-02	-	-	-	-	-	< 0.005	76	-	-	-	0.83
04-Nov-02	0.33	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	77	< 0.05	< 0.05	0.73	0.37
18-Feb-03	-	-	-	-	-	< 0.005	63	-	-	-	0.09
06-May-03	-	-	-	-	-	< 0.005	65	-	-	-	0.17
08-Aug-03	-	-	-	-	-	< 0.005	74	-	-	-	0.33
28-Oct-03	-	-	-	-	-	< 0.005	71	-	-	-	0.09
27-Jan-04	-	-	-	-	-	< 0.005	64	-	-	-	0.26
14-Apr-09	-	-	-	-	-	-	57	-	-	-	0.15
12-Jul-04	0.19	< 0.003	0.004	< 0.300	< 0.005	< 0.005	64	< 0.05	< 0.05	< 0.02	0.20
05-Oct-04	-	-	-	-	-	< 0.005	71	-	-	-	1.60
18-Jan-05	-	-	-	-	-	< 0.005	61	-	-	-	0.13
05-Apr-05	-	-	-	-	-	< 0.005	68	-	-	-	0.19
02-Aug-05	-	-	-	-	-	< 0.005	64	-	-	-	0.05
01-Nov-05	0.06	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	64	< 0.05	< 0.05	< 0.02	0.12
14-Feb-06	0.14	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	70	< 0.05	< 0.05	0.06	0.15
18-Apr-06	-	-	-	-	-	< 0.005	64	-	-	-	0.13
25-Jul-06	-	-	-	-	-	< 0.005	64	-	-	-	0.07
17-Oct-06	-	-	-	-	-	< 0.005	190	-	-	-	20.00
18-Jan-07	-	-	-	-	-	< 0.005	63	-	-	-	0.11
03-Apr-07	0.06	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	59	< 0.05	< 0.05	< 0.02	0.11
10-Jul-07	-	-	-	-	-	< 0.005	68	-	-	-	0.22
16-Oct-07	-	-	-	-	-	< 0.005	63	-	-	-	0.10
28-Mar-08	-	-	-	-	-	< 0.005	74	-	-	-	0.22
30-Jun-09	-	-	-	-	-	< 0.005	77	-	-	-	< 0.06
14-Jul-09	-	-	-	-	-	< 0.005	84	-	-	-	0.58
06-Oct-09	< 0.10	< 0.030	< 0.010	0.062	< 0.003	< 0.005	74	< 0.01	< 0.02	< 0.01	< 0.06
26-Jan-10	< 0.10	< 0.030	< 0.010	0.055	< 0.003	< 0.005	72	< 0.01	< 0.02	< 0.01	0.08
19-Apr-11	-	-	-	-	-	< 0.005	69	-	-	-	0.17
31-Jul-12	-	-	-	-	-	< 0.005	70	-	-	-	0.07
12-Nov-13	0.69	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	70	< 0.01	< 0.05	< 0.03	1.10
31-Mar-15	-	-	-	-	-	< 0.002	59	-	-	-	0.21
18-May-16	-	-	-	-	-	< 0.002	66	-	-	-	< 0.05
18-Jul-17	< 0.20	< 0.020	< 0.015	0.046	< 0.002	< 0.002	68	< 0.004	< 0.004	< 0.01	< 0.05
12-Dec-18	-	-	-	-	-	< 0.005	75	-	-	-	1.59
20-Mar-20	-	-	-	-	-	< 0.005	71	-	-	-	0.32
22-Jun-21	< 0.10	< 0.060	< 0.010	0.041	< 0.003	< 0.005	64	< 0.01	< 0.05	< 0.02	< 0.10

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> GW-1												
17-Aug-99	0.010	23	0.03	< 0.0002	< 0.01	2.62	16.5	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
11-Nov-99	0.003	26	0.03	-	-	3.17	20.8	-	-	-	-	-
16-Feb-00	0.003	26	0.04	< 0.0002	< 0.01	2.70	18.5	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.007	24	0.05	< 0.0002	< 0.01	2.57	13.6	< 0.002	< 0.01	< 0.001	< 0.01	0.02
22-Aug-00	0.002	24	0.01	< 0.0002	< 0.01	2.32	13.9	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
13-Nov-00	0.002	25	-	-	-	3.05	18.7	-	-	-	-	-
16-May-01	0.008	22	0.01	-	-	2.18	11.6	-	-	-	-	-
11-Sep-01	< 0.001	21	0.08	< 0.0004	< 0.03	2.60	19.0	< 0.001	< 0.05	-	-	0.05
10-Dec-01	0.005	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.002	22	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-May-02	0.003	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-Aug-02	0.005	22	-	-	0.04	-	-	-	< 0.05	-	-	-
04-Nov-02	0.007	25	0.10	< 0.0004	0.06	1.40	19.0	< 0.005	< 0.05	< 0.003	< 0.30	0.14
18-Feb-03	< 0.001	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	20	-	-	0.04	-	-	-	< 0.05	-	-	-
08-Aug-03	< 0.001	24	-	-	0.06	-	-	-	0.20	-	-	-
28-Oct-03	< 0.001	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.002	20	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-09	-	20	-	-	0.04	-	-	-	-	-	-	-
12-Jul-04	0.002	22	0.01	0.0000	< 0.03	3.70	15.0	0.008	< 0.05	< 0.003	< 0.30	0.02
05-Oct-04	0.002	24	0.01	-	0.05	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.003	23	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.001	22	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	22	0.02	< 0.0004	< 0.03	1.70	13.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.004	20	< 0.02	< 0.0004	< 0.03	1.90	12.0	< 0.005	< 0.05	0.009	< 0.30	< 0.01
18-Apr-06	< 0.001	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	21	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.005	130	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	19	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	20	< 0.02	< 0.0004	< 0.03	1.50	9.4	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.006	23	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	22	< 0.01	-	-	1.62	12.2	-	-	-	-	-
30-Jun-09	< 0.003	24	< 0.01	-	-	1.70	10.8	-	-	-	-	-
14-Jul-09	< 0.003	29	0.02	-	-	2.16	17.5	-	-	-	-	-
06-Oct-09	< 0.003	24	< 0.01	< 0.0002	< 0.03	< 5.00	14.2	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
26-Jan-10	< 0.003	23	< 0.01	< 0.0002	< 0.03	< 5.00	11.9	< 0.005	< 0.01	< 0.010	< 0.03	0.02
19-Apr-11	< 0.003	22	< 0.01	-	-	< 5.00	11.8	-	-	-	-	-
31-Jul-12	< 0.003	16	< 0.01	-	-	< 5.00	10.8	-	-	-	-	-
12-Nov-13	< 0.010	23	0.03	< 0.0002	< 0.04	< 5.00	13.8	< 0.010	< 0.01	< 0.020	< 0.05	0.02
31-Mar-15	< 0.010	20	0.01	-	-	1.60	11.0	-	-	-	-	-
18-May-16	< 0.010	18	< 0.003	-	-	1.50	11.1	-	-	-	-	-
18-Jul-17	< 0.010	21	< 0.003	< 0.0002	< 0.01	1.90	13.1	< 0.025	< 0.06	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	20	0.018	-	-	2.60	13.2	-	-	-	-	-
20-Mar-20	< 0.050	23	0.012	-	-	< 2.00	16.6	-	-	-	-	-
22-Jun-21	< 0.050	18	< 0.01	< 0.0002	< 0.04	< 2.00	13.6	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	DISSOLVED METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-1											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
11-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-09	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	DISSOLVED METALS											
OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.001	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
Monitoring Wells GW-1												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-09	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA		
ORGANIC PARAMETERS (DETECTED)		
OVERBURDEN UNIT	Acetone (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	50	
<i>Monitoring Wells</i> GW-1	ANALYSIS METHOD	
17-Aug-99	EPA 8260 -	0
11-Nov-99	- -	-
16-Feb-00	EPA 8260 -	0
18-May-00	EPA 8260 -	0
22-Aug-00	EPA 8260 -	0
13-Nov-00	- -	-
16-May-01	- -	-
11-Sep-01	EPA 8260 59 B	59
10-Dec-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
13-Aug-02	- -	-
04-Nov-02	- -	-
18-Feb-03	EPA 8260 -	0
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
27-Jan-04	- -	-
14-Apr-09	- -	-
12-Jul-04	EPA 8260 -	0
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 -	0
14-Feb-06	EPA 8260 -	0
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 -	0
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 10	0
26-Jan-10	EPA 8260 < 10	0
19-Apr-11	- -	-
31-Jul-12	- -	-
12-Nov-13	EPA 8260 < 10	0
31-Mar-15	- -	-
18-May-16	- -	-
18-Jul-17	EPA 8260 < 10	0
12-Dec-18	- -	-
20-Mar-20	- -	-
22-Jun-21	EPA 8260 < 5	0

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

	FIELD PARAMETERS					INORGANIC PARAMETERS					
OVERBURDEN UNIT	TEMP.	Eh	pH	SP. COND.	TURB.	ALK.		HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	COLOR (mg/l Units)	CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5	15	-	-	500	250	250
Monitoring Wells GW-4											
17-Aug-99	55	162.0	7.4	2010	10.8	25	331	1000	1630	5	150
11-Nov-99	48	-62.0	7.6	2100	7.6	-	334	1060	1617	4	910
16-Feb-00	48	-47.0	7.1	1900	14.0	75	318	1010	1600	5	610
18-May-00	55	-96.0	7.7	1850	65.0	375	304	967	1650	5	967
22-Aug-00	54	5.0	8.1	1814	1.8	-	310	977	1620	5	980
13-Nov-00	50	-33.0	7.7	1937	92.0	-	302	961	1650	4	1410
16-May-01	51	-83.0	8.1	1926	45.0	-	304	941	1630	5	1000
10-Sep-01	58	6.2	6.9	1041	39.7	27	310	720	1600	3	880
10-Dec-01	52	-28.0	7.2	878	4.2	-	340	780	1500	3	1000
11-Feb-02	50	-17.5	7.2	1078	8.7	-	340	850	1700	4	33
13-May-02	50	-23.9	7.3	653	41.7	-	340	850	1600	4	1100
13-Aug-02	56	-13.7	7.1	512	38.4	-	350	850	1600	3	880
04-Nov-02	51	-30.1	8.0	1267	41.6	21	330	940	1700	5	760
18-Feb-03	50	-19.8	7.2	896	2.7	-	350	930	1500	4	640
06-May-03	52	-17.9	7.3	782	2.8	-	850	790	1600	3	850
08-Aug-03	58	28.9	6.9	630	3.3	-	330	1000	1600	5	890
28-Oct-03	53	5.4	7.2	992	2.6	-	360	890	1700	5	900
27-Jan-04	48	5.5	7.2	991	15.5	-	340	850	1700	4	1100
14-Apr-04	51	-11.2	7.3	924	3.3	-	340	920	1580	4	860
12-Jul-04	56	-	7.0	845	4.7	5	350	910	1740	1	901
05-Oct-04	55	-22.1	7.4	759	6.6	-	340	950	1820	5	1170
18-Jan-05	49	3.3	7.2	1056	1.2	-	380	860	1560	4	898
05-Apr-05	55	2.6	7.4	1003	2.2	-	330	980	1470	< 9	992
02-Aug-05	57	24.9	7.1	933	2.5	-	350	900	1780	38	780
01-Nov-05	55	-11.1	7.3	710	2.2	10	310	890	1600	56	1100
14-Feb-06	51	18.2	7.5	657	4.0	8	970	1100	1750	6	1120
18-Apr-06	55	10.8	7.3	574	12.7	-	340	930	1600	4	1020
25-Jul-06	59	23.1	6.6	553	4.4	-	320	970	1800	4	860
17-Oct-06	53	2.4	7.4	502	2.1	-	320	810	1730	5	933
18-Jan-07	49	16.5	7.3	628	5.2	-	320	1000	1570	5	699
03-Apr-07	54	34.2	7.0	608	4.7	25	330	820	1930	6	17
10-Jul-07	57	-7.0	7.2	596	5.3	-	310	1100	1500	5	268
16-Oct-07	54	-10.3	7.0	522	2.9	-	330	950	1680	4	935
28-Mar-08	50	-8.3	7.2	474	2.0	-	320	1050	1680	4	1030
30-Jun-09	56	-33.4	7.3	1444	3.6	-	300	1230	1900	5	925
14-Jul-09	56	-26.1	7.2	1480	3.0	-	290	1160	1900	5	953
06-Oct-09	12	-18.4	7.1	1391	3.4	10	320	1140	1500	6	1020
26-Jan-10	46	-13.5	6.9	1625	8.6	6	330	1050	1600	5	1470
19-Apr-11	49	-50.5	7.4	1150	3.1	-	300	1050	1800	5	1050
31-Jul-12	59	-33.2	7.7	1297	12.1	-	290	1150	1800	6	885
12-Nov-13	45	173.0	7.5	2000	11.6	30	312	1060	1620	3	963
31-Mar-15	46	-27.0	7.5	200	47.9	-	365	1050	1720	< 10	963
18-May-16	53	42.0	7.3	1890	92.0	-	348	1090	1620	5	918
18-Jul-17	58	193.0	7.3	1790	3.5	5	328	1060	1720	< 5	894
12-Dec-18	49	179.0	7.2	2006	8.8	-	300	1060	1750	4	876
20-Mar-20	43	56.0	7.2	2172	6.3	-	313	1240	1890	4	1060
22-Jun-21	52	138.0	7.3	2189	11.1	6	334	1230	1880	5	1070

**STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA**

OVERBURDEN UNIT	INORGANIC PARAMETERS										
	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.00	0.05	10	2.0	-	-	-	-	0.001	0.20
<i>Monitoring Wells GW-4</i>											
17-Aug-99	< 1.0	0.12	< 0.01	0.05	0.27	2.04	< 10	< 3	1	< 0.004	0.011
11-Nov-99	< 1.0	-	-	0.18	0.17	< 0.50	< 10	< 3	1	< 0.004	-
16-Feb-00	< 1.0	0.10	< 0.01	0.09	< 0.10	< 1.00	< 10	< 3	1	< 0.004	< 0.010
18-May-00	< 1.0	0.10	< 0.01	0.06	< 0.10	< 1.00	< 10	< 3	1	< 0.004	< 0.010
22-Aug-00	< 1.0	< 0.05	< 0.01	< 0.05	0.14	< 1.00	< 10	< 3	2	< 0.004	< 0.010
13-Nov-00	1.0	-	-	< 0.20	0.15	3.47	< 20	< 4	1	< 0.005	-
16-May-01	< 1.0	-	-	< 0.10	< 0.10	1.53	< 10	< 3	1	< 0.004	-
10-Sep-01	-	< 0.50	< 0.01	0.40	< 0.50	1.60	< 20	< 4	2	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-May-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
13-Aug-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	0.011	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	0.60	< 20	6	3	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	0.90	< 20	< 4	< 3	< 0.005	-
27-Jan-04	< 0.2	-	-	-	-	-	12	< 4	< 3	< 0.005	-
14-Apr-04	-	-	-	< 0.20	< 0.50	< 0.50	< 20	-	-	-	-
12-Jul-04	< 0.2	0.10	< 0.01	0.30	< 0.50	< 0.50	< 20	< 4	< 3	0.008	< 0.010
05-Oct-04	< 0.2	-	-	0.40	< 0.50	0.63	< 20	7	4	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	4	< 3	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
01-Nov-05	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	15	5	0.005	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	6	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	0.52	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
17-Oct-06	< 2.0	-	-	0.31	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
18-Jan-07	< 2.0	-	-	0.23	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
03-Apr-07	< 2.0	0.54	< 0.01	< 0.20	< 0.50	< 0.50	< 20	4	< 3	< 0.005	< 0.010
10-Jul-07	< 2.0	-	-	0.35	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 2.0	-	-	< 0.20	< 0.50	0.70	< 20	< 4	< 3	< 0.005	-
30-Jun-09	< 20.0	-	-	< 0.20	< 0.50	0.69	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	< 0.50	< 0.01	0.28	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
26-Jan-10	< 2.0	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
19-Apr-11	< 0.8	-	-	0.07	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 8.0	-	-	0.81	< 0.50	2.78	41	< 4	3	< 0.005	-
12-Nov-13	< 1.0	< 0.20	< 0.01	< 0.05	0.14	0.43	11	< 2	1	< 0.010	< 0.010
31-Mar-15	< 4.0	-	-	< 0.05	0.07	0.33	< 10	< 2	1	< 0.010	-
18-May-16	< 1.0	-	-	< 0.05	0.08	0.42	< 10	< 2	< 1	< 0.010	-
18-Jul-17	< 2.0	0.10	-	< 0.05	0.09	0.27	< 10	2	< 1	< 0.010	< 0.010
12-Dec-18	< 1.0	-	-	< 1.00	0.07	0.28	10	< 2	2	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	0.12	0.48	9	< 2	2	< 0.005	-
22-Jun-21	< 1.0	< 0.20	< 0.01	< 1.00	0.09	0.38	< 5	< 2	1	< 0.005	< 0.005

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-4											
17-Aug-99	0.41	< 0.050	0.003	< 0.016	< 0.002	< 0.005	269	< 0.01	< 0.01	0.02	2.04
11-Nov-99	-	-	-	-	-	< 0.005	287	-	-	-	1.71
16-Feb-00	< 0.08	< 0.050	< 0.002	< 0.016	< 0.002	< 0.005	273	< 0.01	< 0.01	0.02	0.51
18-May-00	< 0.08	< 0.050	< 0.002	< 0.016	< 0.002	< 0.005	259	< 0.01	< 0.01	0.02	0.82
22-Aug-00	< 0.08	< 0.050	0.003	< 0.016	< 0.002	< 0.005	262	< 0.01	< 0.01	< 0.02	1.87
13-Nov-00	-	-	-	-	-	< 0.005	259	-	-	-	3.41
16-May-01	-	-	-	-	-	< 0.005	253	-	-	-	2.44
10-Sep-01	10.00	< 0.003	0.031	< 0.300	< 0.005	0.008	190	< 0.05	0.06	0.03	22.00
10-Dec-01	-	-	-	-	-	< 0.005	210	-	-	-	1.20
11-Feb-02	-	-	-	-	-	< 0.005	230	-	-	-	0.58
13-May-02	-	-	-	-	-	< 0.005	230	-	-	-	1.40
13-Aug-02	-	-	-	-	-	0.009	230	-	-	-	3.90
04-Nov-02	0.65	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	260	< 0.01	< 0.05	0.88	1.50
18-Feb-03	-	-	-	-	-	0.005	250	-	-	-	1.60
06-May-03	-	-	-	-	-	< 0.005	210	-	-	-	1.50
08-Aug-03	-	-	-	-	-	0.006	280	-	-	-	2.40
28-Oct-03	-	-	-	-	-	< 0.005	240	-	-	-	1.90
27-Jan-04	-	-	-	-	-	< 0.005	230	-	-	-	2.40
14-Apr-04	-	-	-	-	-	-	250	-	-	-	1.60
12-Jul-04	0.17	< 0.003	0.006	< 0.300	< 0.005	< 0.005	250	0.01	0.05	0.02	1.10
05-Oct-04	-	-	-	-	-	< 0.005	250	-	-	-	2.30
18-Jan-05	-	-	-	-	-	< 0.005	230	-	-	-	1.50
05-Apr-05	-	-	-	-	-	0.005	260	-	-	-	1.30
02-Aug-05	-	-	-	-	-	< 0.005	250	-	-	-	1.60
01-Nov-05	0.09	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	240	< 0.05	< 0.05	< 0.02	2.30
14-Feb-06	0.14	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	300	< 0.05	0.07	0.10	1.50
18-Apr-06	-	-	-	-	-	< 0.005	250	-	-	-	1.20
25-Jul-06	-	-	-	-	-	< 0.005	260	-	-	-	1.50
17-Oct-06	-	-	-	-	-	< 0.005	210	-	-	-	2.90
18-Jan-07	-	-	-	-	-	< 0.005	270	-	-	-	1.30
03-Apr-07	< 0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	220	< 0.05	< 0.05	< 0.02	1.20
10-Jul-07	-	-	-	-	-	< 0.005	290	-	-	-	0.97
16-Oct-07	-	-	-	-	-	< 0.005	257	-	-	-	1.34
28-Mar-08	-	-	-	-	-	< 0.005	285	-	-	-	1.50
30-Jun-09	-	-	-	-	-	< 0.005	330	-	-	-	1.54
14-Jul-09	-	-	-	-	-	< 0.005	314	-	-	-	1.33
06-Oct-09	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	313	< 0.01	< 0.02	< 0.01	1.61
26-Jan-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	274	< 0.01	< 0.02	< 0.01	1.53
19-Apr-11	-	-	-	-	-	< 0.005	282	-	-	-	1.62
31-Jul-12	-	-	-	-	-	< 0.005	307	-	-	-	0.51
12-Nov-13	0.79	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	286	< 0.01	< 0.05	< 0.03	1.40
31-Mar-15	-	-	-	-	-	< 0.002	279	-	-	-	4.00
18-May-16	-	-	-	-	-	< 0.002	291	-	-	-	8.00
18-Jul-17	0.24	< 0.020	< 0.015	0.010	< 0.002	< 0.002	283	< 0.004	< 0.004	< 0.01	0.28
12-Dec-18	-	-	-	-	-	< 0.005	273	-	-	-	0.50
20-Mar-20	-	-	-	-	-	< 0.005	330	-	-	-	0.41
22-Jun-21	1.32	< 0.060	< 0.010	< 0.020	< 0.003	< 0.005	330	< 0.01	< 0.05	< 0.02	2.40

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

OVERBURDEN UNIT	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20.0	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> GW-4												
17-Aug-99	0.001	81	3.23	< 0.0002	0.01	3.20	89.5	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
11-Nov-99	0.001	84	2.91	-	-	3.23	90.9	-	-	-	-	-
16-Feb-00	0.003	80	1.79	< 0.0002	< 0.01	2.99	80.2	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.001	78	2.12	< 0.0002	< 0.01	3.01	81.7	< 0.002	< 0.01	< 0.001	< 0.01	0.10
22-Aug-00	0.002	78	2.57	< 0.0002	< 0.01	2.98	87.7	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
13-Nov-00	0.004	76	2.55	-	-	3.77	91.9	-	-	-	-	-
16-May-01	0.002	75	2.32	-	-	3.02	76.7	-	-	-	-	-
10-Sep-01	0.011	59	2.20	< 0.0004	0.08	5.80	76.0	< 0.005	< 0.05	-	-	0.09
10-Dec-01	< 0.001	63	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.003	67	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-May-02	0.002	67	-	-	0.05	-	-	-	< 0.05	-	-	-
13-Aug-02	0.003	65	-	-	0.06	-	-	-	< 0.05	-	-	-
04-Nov-02	0.005	69	1.40	< 0.0004	0.09	3.30	85.0	< 0.005	< 0.05	< 0.003	< 0.30	0.17
18-Feb-03	0.002	74	-	-	0.04	-	-	-	0.06	-	-	-
06-May-03	< 0.001	64	-	-	0.03	-	-	-	< 0.05	-	-	-
08-Aug-03	< 0.001	79	-	-	0.06	-	-	-	< 0.05	-	-	-
28-Oct-03	0.002	71	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	< 0.001	68	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	-	75	-	-	0.03	-	-	-	-	-	-	-
12-Jul-04	< 0.001	73	2.00	0.0001	0.04	3.60	86.0	0.025	< 0.05	< 0.003	< 0.30	0.04
05-Oct-04	0.002	77	-	-	0.06	-	-	-	< 0.05	-	-	-
18-Jan-05	0.003	72	-	-	0.06	-	-	-	< 0.05	-	-	-
05-Apr-05	0.002	79	-	-	0.04	-	-	-	< 0.05	-	-	-
02-Aug-05	< 0.001	67	-	-	0.05	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	70	2.00	< 0.0004	< 0.03	3.60	80.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.002	81	2.00	< 0.0004	< 0.03	4.10	84.0	< 0.005	< 0.05	0.015	< 0.30	< 0.01
18-Apr-06	< 0.001	74	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	77	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	72	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	79	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	65	1.60	< 0.0004	< 0.03	3.10	76.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	< 0.003	85	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.008	75	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	82	2.24	-	-	3.94	103.0	-	-	-	-	-
30-Jun-09	< 0.003	98	2.60	-	-	4.81	116.0	-	-	-	-	-
14-Jul-09	< 0.003	91	2.37	-	-	4.52	110.0	-	-	-	-	-
06-Oct-09	< 0.003	87	2.29	< 0.0020	< 0.03	< 5.00	118.0	< 0.005	< 0.01	< 0.010	< 0.03	0.03
26-Jan-10	< 0.003	88	2.08	< 0.0020	< 0.03	< 5.00	106.0	< 0.005	< 0.01	< 0.010	< 0.03	0.09
19-Apr-11	< 0.003	85	2.37	-	-	< 5.00	95.2	-	-	-	-	-
31-Jul-12	< 0.003	93	0.23	-	-	6.10	114.0	-	-	-	-	-
12-Nov-13	< 0.010	84	2.10	< 0.0002	< 0.04	< 5.00	97.0	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
31-Mar-15	< 0.010	86	2.20	-	-	4.60	91.8	-	-	-	-	-
18-May-16	< 0.010	88	2.70	-	-	5.00	97.5	-	-	-	-	-
18-Jul-17	< 0.010	85	2.20	< 0.0002	< 0.01	3.40	94.5	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	92	2.31	-	-	4.00	102.0	-	-	-	-	-
20-Mar-20	< 0.050	102	2.21	-	-	3.70	108.0	-	-	-	-	-
22-Jun-21	< 0.050	100	2.33	< 0.0002	< 0.04	4.03	105.0	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
OVERBURDEN UNIT	DISSOLVED METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> GW-4											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	< 0.002	293	-	-	-	< 0.05
18-May-16	-	-	-	-	-	< 0.002	280	-	-	-	< 0.05
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA												
	DISSOLVED METALS												
OVERBURDEN UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]	
Monitoring Wells GW-4													
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-	
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-	
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-	
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-	
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-	
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-	
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-	
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-	
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-	
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-	
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-	
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-	
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-	
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-	
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-	
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-	
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-	
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-	
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-	
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-	
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-	
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-	
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-	
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-	
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-	
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-	
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-	
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-	
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-	
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-	
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-	
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-	
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-	
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-	
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-	
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-	
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-	
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-	
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-	
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	
31-Mar-15	< 0.010	91	2.20	-	-	3.50	98.9	-	-	-	-	-	
18-May-16	< 0.010	87	2.00	-	-	3.40	96.4	-	-	-	-	-	
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-	
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-	
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-	
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-	

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA			
ORGANIC PARAMETERS (DETECTED)			
OVERBURDEN UNIT	Chloroform (ug/l)	Acetone (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	7	50	
<i>Monitoring Wells</i> GW-4	ANALYSIS METHOD		
17-Aug-99	EPA 8260	-	0
11-Nov-99	-	-	-
16-Feb-00	EPA 8260	-	0
18-May-00	EPA 8260	-	0
22-Aug-00	EPA 8260	-	0
13-Nov-00	-	-	-
16-May-01	-	-	-
10-Sep-01	EPA 8260	91 B	91
10-Dec-01	-	-	-
11-Feb-02	-	-	-
13-May-02	-	-	-
13-Aug-02	-	-	-
04-Nov-02	EPA 8260	-	-
18-Feb-03	-	-	-
06-May-03	-	-	-
08-Aug-03	-	-	-
28-Oct-03	-	-	-
27-Jan-04	-	-	-
14-Apr-04	-	-	-
12-Jul-04	EPA 8260	-	-
05-Oct-04	-	-	-
18-Jan-05	-	-	-
05-Apr-05	-	-	-
02-Aug-05	-	-	-
01-Nov-05	EPA 8260	3	3
14-Feb-06	EPA 8260	< 3	< 3
18-Apr-06	-	-	-
25-Jul-06	-	-	-
17-Oct-06	-	-	-
18-Jan-07	-	-	-
03-Apr-07	EPA 8260	< 3	0
10-Jul-07	-	-	-
16-Oct-07	-	-	-
28-Mar-08	-	-	-
30-Jun-09	-	-	-
14-Jul-09	-	-	-
06-Oct-09	EPA 8260	< 5 < 10	0
26-Jan-10	EPA 8260	< 5 < 10	0
19-Apr-11	-	-	-
31-Jul-12	-	-	-
12-Nov-13	EPA 8260	< 1 < 10	0
31-Mar-15	-	-	-
18-May-16	-	-	-
18-Jul-17	EPA 8260	< 1 < 10	0
12-Dec-18	-	-	-
20-Mar-20	-	-	-
22-Jun-21	EPA 8260	< 1 < 5	0

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

	FIELD PARAMETERS					INORGANIC PARAMETERS					
BEDROCK UNIT	TEMP.	Eh	pH	SP.	TURB.	ALK.		HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	(uS/cm)	(NTU)	COLOR (mg/l Units)	CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	6.5-8.5	-	5.0	15	-	-	500	250	250
Monitoring Wells MW-2D											
17-Aug-99	54	141.0	6.9	860	16.0	25	392	317	479	6	74
11-Nov-99	49	-38.0	7.5	810	9.9	-	391	265	467	5	78
16-Feb-00	50	-183.0	7.3	890	34.7	100	392	258	474	8	72
18-May-00	55	-108.0	8.0	750	16.0	10	198	237	484	18	55
22-Aug-00	55	-33.0	8.3	809	14.7	-	358	236	501	10	51
13-Nov-00	48	-75.0	8.0	797	17.1	-	385	239	465	7	73
16-May-01	52	-59.0	8.2	848	360.0	-	386	268	497	13	83
10-Sep-01	54	30.2	7.3	533	173.6	21	360	270	680	3	150
10-Dec-01	51	-40.8	7.4	452	26.7	-	400	300	500	4	90
11-Feb-02	52	-28.6	7.4	519	45.8	-	500	220	450	5	81
13-May-02	52	-40.9	7.6	334	284.0	-	370	230	470	4	76
04-Nov-02	51	-48.1	8.2	558	24.7	9	370	210	520	7	48
18-Feb-03	50	-38.0	7.5	423	37.6	-	450	200	430	7	37
06-May-03	51	-32.0	7.5	369	30.2	-	360	190	450	4	41
08-Aug-03	62	26.9	6.9	350	119.0	-	360	350	620	5	130
28-Oct-03	52	7.2	7.2	585	30.4	-	400	350	610	3	130
14-Apr-04	51	-15.6	7.4	622	23.3	-	300	300	485	15	190
12-Jul-04	54	-	7.1	548	16.6	5	370	330	590	3	172
05-Oct-04	52	-25.7	7.4	501	16.9	-	400	330	585	6	181
18-Jan-05	51	-54.4	8.4	479	15.8	-	100	220	122	10	24
05-Apr-05	51	-12.5	7.7	417	3.8	-	230	240	182	6	77
02-Aug-05	57	5.9	7.4	505	16.3	-	270	230	345	42	54
01-Nov-05	53	-26.1	7.6	430	13.4	5	390	230	595	27	66
14-Feb-06	52	28.9	7.3	434	12.0	5	520	310	498	5	98
18-Apr-06	51	-3.8	7.6	370	13.3	-	480	290	430	6	75
25-Jul-06	57	5.4	6.9	379	18.8	-	350	280	490	19	71
17-Oct-06	52	1.4	7.4	367	13.0	-	380	280	530	10	51
18-Jan-07	48	10.1	7.4	430	4.6	-	350	330	398	11	60
03-Apr-07	52	5.8	7.6	671	16.0	10	2400	240	960	418	102
10-Jul-07	56	-21.1	7.4	453	4.6	-	330	350	622	48	150
16-Oct-07	52	-10.2	7.0	412	8.9	-	390	291	648	50	173
28-Mar-08	50	-17.2	7.4	403	42.6	-	200	372	317	54	62
30-Jun-09	55	-50.0	7.6	869	6.0	-	290	417	830	110	177
14-Jul-09	56	-54.9	7.8	1315	19.6	-	310	296	710	45	198
06-Oct-09	52	-40.9	7.6	776	17.7	12	330	544	620	22	154
26-Jan-10	48	-26.3	7.1	831	16.4	6	390	351	500	36	114
19-Apr-11	50	-43.3	7.3	662	8.5	-	330	341	560	25	168
31-Jul-12	58	-30.3	7.5	286	15.2	-	120	17	190	51	9
12-Nov-13	47	113.0	7.5	950	51.2	10	373	399	609	3	194
30-Mar-15	Frozen	-	-	-	-	-	-	-	-	-	-
18-May-16	52	43.0	7.5	920	4.2	-	368	396	608	5	195
18-Jul-17	58	-43.0	7.8	870	5.8	5	356	374	571	4	172
12-Dec-18	50	58.0	7.3	924	11.7	-	319	411	611	3	173
20-Mar-20	53	-27.0	7.6	943	7.3	-	333	404	615	4	178
22-Jun-21	52	55.0	7.5	961	4.7	6	351	377	615	17	171

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
BEDROCK UNIT	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	[2.0]	1.0	0.05	10	2.0	-	-	-	-	0.001	0.20
Monitoring Wells MW-2D											
17-Aug-99	< 1.0	0.12	< 0.01	< 0.05	0.32	1.13	< 10	< 3	1	0.001	< 0.010
11-Nov-99	< 1.0	-	-	< 0.05	0.12	< 1.00	< 10	3	< 1	< 0.004	-
16-Feb-00	< 1.0	0.17	< 0.01	< 0.05	0.13	< 1.00	< 10	4	1	< 0.004	< 0.010
18-May-00	< 1.0	0.18	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	< 1	< 0.004	< 0.010
22-Aug-00	< 1.0	< 0.48	< 0.01	0.09	< 0.10	< 1.00	< 10	4	1	< 0.004	< 0.010
13-Nov-00	1.9	-	-	< 0.20	< 0.50	1.00	< 20	5	1	< 0.005	-
16-May-01	1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	< 3	1	< 0.005	-
10-Sep-01	-	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	2	< 0.005	< 0.010
10-Dec-01	< 0.2	-	-	< 0.20	< 0.50	0.60	< 20	5	< 3	< 0.005	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	21	9	89	0.039	-
13-May-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
04-Nov-02	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	5	< 3	< 0.005	< 0.010
18-Feb-03	< 0.2	-	-	< 0.20	< 0.50	0.80	< 20	11	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
08-Aug-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	49	< 4	3	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	0.90	< 20	< 4	< 3	< 0.005	-
14-Apr-04	-	-	-	-	-	1.90	14	-	3	-	-
12-Jul-04	< 0.2	0.20	< 0.01	< 0.20	< 0.50	< 0.50	29	< 4	< 3	< 0.005	< 0.010
05-Oct-04	< 0.2	-	-	< 0.20	2.53	< 0.50	< 20	6	< 3	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.59	< 0.50	< 0.50	< 20	4	< 3	0.028	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	0.083	-
01-Nov-05	< 0.2	< 0.50	< 0.01	0.47	< 0.50	< 0.50	< 20	10	< 3	< 0.005	< 0.010
14-Feb-06	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	6	< 3	< 0.005	< 0.010
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	120	10	< 3	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	7	< 3	< 0.005	-
17-Oct-06	< 0.2	-	-	0.33	< 0.50	< 0.50	< 20	6	< 3	< 0.005	-
18-Jan-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	9	3	< 0.005	-
03-Apr-07	< 20.0	0.78	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
10-Jul-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
28-Mar-08	< 200.0	-	-	0.35	< 0.50	0.70	26	< 4	< 3	< 0.005	-
30-Jun-09	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	0.53	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 2.0	0.57	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.010
26-Jan-10	< 0.2	< 0.50	< 0.01	< 0.20	< 0.50	< 0.50	< 20	5	< 3	< 0.005	< 0.010
19-Apr-11	< 0.8	-	-	< 0.05	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
31-Jul-12	< 8.0	-	-	1.90	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
12-Nov-13	< 0.2	< 0.20	0.02	< 0.05	0.03	0.37	25	< 2	< 1	< 0.010	< 0.010
30-Mar-15	Frozen	-	-	-	-	-	-	-	-	-	-
18-May-16	< 0.2	-	-	< 0.05	< 0.02	< 0.20	< 10	< 2	1	< 0.010	-
18-Jul-17	< 1.0	< 0.02	-	< 0.05	< 0.02	0.24	< 10	< 2	1	< 0.010	< 0.010
12-Dec-18	< 1.0	-	-	< 1.00	0.07	0.36	6	< 2	2	< 0.005	-
20-Mar-20	< 1.0	-	-	< 1.00	0.07	< 0.20	< 5	< 2	1	< 0.005	-
22-Jun-21	< 1.0	< 0.20	< 0.01	< 1.00	0.05	< 0.20	< 5	< 2	2	< 0.005	< 0.005

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

BEDROCK UNIT	TOTAL METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2D											
17-Aug-99	1.83	< 0.050	0.120	0.255	< 0.002	< 0.005	80.7	< 0.01	< 0.01	< 0.02	3.84
11-Nov-99	-	-	-	-	-	< 0.005	68.3	-	-	-	1.46
16-Feb-00	1.00	< 0.050	0.120	0.468	< 0.002	< 0.005	66.9	< 0.01	< 0.01	< 0.02	2.60
18-May-00	0.18	< 0.050	0.100	0.492	< 0.002	< 0.005	61	< 0.01	< 0.01	< 0.02	1.08
22-Aug-00	0.10	< 0.050	0.083	0.538	< 0.002	< 0.005	60.9	< 0.01	< 0.01	< 0.02	0.94
13-Nov-00	-	-	-	-	-	< 0.005	61.4	-	-	-	1.74
16-May-01	-	-	-	-	-	< 0.005	68.4	-	-	-	3.32
10-Sep-01	8.20	< 0.003	0.083	0.300	< 0.005	0.007	69	< 0.05	0.05	0.02	15.00
10-Dec-01	-	-	-	-	-	< 0.005	78	-	-	-	38.00
11-Feb-02	-	-	-	-	-	< 0.005	55	-	-	-	1.60
13-May-02	-	-	-	-	-	< 0.005	59	-	-	-	10.00
04-Nov-02	0.53	< 0.003	0.074	0.600	< 0.005	< 0.005	57	< 0.05	< 0.05	0.05	1.50
18-Feb-03	-	-	-	-	-	0.006	52	-	-	-	1.70
06-May-03	-	-	-	-	-	0.006	48	-	-	-	3.00
08-Aug-03	-	-	-	-	-	0.006	89	-	-	-	16.00
28-Oct-03	-	-	-	-	-	< 0.005	89	-	-	-	3.10
14-Apr-04	-	-	-	-	-	-	76	-	-	-	1.30
12-Jul-04	0.99	< 0.003	0.041	< 0.300	< 0.005	-	84	0.01	< 0.05	0.03	2.50
05-Oct-04	-	-	-	-	-	< 0.200	82	-	-	-	1.50
18-Jan-05	-	-	-	-	-	< 0.005	63	-	-	-	12.00
05-Apr-05	-	-	-	-	-	< 0.005	53	-	-	-	0.23
02-Aug-05	-	-	-	-	-	< 0.005	63	-	-	-	4.70
01-Nov-05	1.70	< 0.003	0.054	< 0.300	< 0.005	< 0.005	60	< 0.05	< 0.05	< 0.02	4.80
14-Feb-06	0.24	0.014	0.055	< 0.300	< 0.005	< 0.005	82	< 0.05	< 0.05	0.07	1.10
18-Apr-06	-	-	-	-	-	< 0.005	72	-	-	-	1.20
25-Jul-06	-	-	-	-	-	< 0.005	73	-	-	-	2.70
17-Oct-06	-	-	-	-	-	< 0.005	71	-	-	-	2.70
18-Jan-07	-	-	-	-	-	< 0.005	88	-	-	-	24.00
03-Apr-07	0.63	< 0.003	0.047	< 0.300	< 0.005	< 0.005	68	< 0.05	< 0.05	< 0.02	2.00
10-Jul-07	-	-	-	-	-	< 0.005	90	-	-	-	3.20
16-Oct-07	-	-	-	-	-	< 0.005	75	-	-	-	1.33
28-Mar-08	-	-	-	-	-	< 0.005	94	-	-	-	16.90
30-Jun-09	-	-	-	-	-	< 0.005	107	-	-	-	0.91
14-Jul-09	-	-	-	-	-	< 0.005	82	-	-	-	4.59
06-Oct-09	30.40	< 0.030	0.113	0.685	< 0.003	< 0.005	154	0.04	0.03	0.04	50.50
26-Jan-10	1.00	< 0.030	0.055	0.265	< 0.003	< 0.005	90	< 0.01	< 0.02	< 0.01	4.44
19-Apr-11	-	-	-	-	-	< 0.005	86	-	-	-	0.95
31-Jul-12	-	-	-	-	-	< 0.005	7	-	-	-	0.81
12-Nov-13	0.66	< 0.010	0.027	< 0.200	< 0.004	< 0.005	102	< 0.01	< 0.05	< 0.03	0.70
30-Mar-15	Frozen	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	< 0.002	100	-	-	-	0.41
18-Jul-17	0.34	< 0.020	0.040	0.140	< 0.002	< 0.002	95	< 0.004	< 0.004	< 0.01	0.68
12-Dec-18	-	-	-	-	-	< 0.005	106	-	-	-	1.11
20-Mar-20	-	-	-	-	-	< 0.005	102	-	-	-	0.90
22-Jun-21	0.19	< 0.060	0.032	0.175	< 0.003	< 0.005	96	< 0.01	< 0.05	< 0.02	0.69

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

BEDROCK UNIT	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.025	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
<i>Monitoring Wells</i> MW-2D												
17-Aug-99	0.008	28	0.70	< 0.0002	< 0.01	3.07	69.7	< 0.002	< 0.01	< 0.001	< 0.01	0.03
11-Nov-99	0.002	23	0.51	-	-	3.34	82.2	-	-	-	-	-
16-Feb-00	< 0.001	22	0.49	< 0.0002	< 0.01	3.26	77.3	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
18-May-00	0.003	21	0.43	< 0.0002	< 0.01	3.35	88.6	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	0.004	20	0.43	< 0.0002	< 0.01	3.25	88.4	< 0.002	< 0.01	< 0.001	< 0.01	0.02
13-Nov-00	0.005	21	0.47	-	-	3.90	89.7	-	-	-	-	-
16-May-01	0.008	24	-	-	-	4.08	77.1	-	-	-	-	-
10-Sep-01	0.033	24	0.80	< 0.0004	0.06	4.50	67.0	< 0.010	< 0.05	-	-	0.10
10-Dec-01	0.057	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
11-Feb-02	0.005	19	-	-	< 0.03	-	-	-	< 0.05	-	-	-
13-May-02	0.021	21	-	-	0.05	-	-	-	< 0.05	-	-	-
04-Nov-02	0.008	18	0.43	< 0.0004	0.05	3.50	84.0	< 0.005	< 0.05	< 0.003	< 0.30	0.05
18-Feb-03	0.009	17	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	0.009	16	-	-	< 0.03	-	-	-	< 0.05	-	-	-
08-Aug-03	0.023	32	-	-	0.07	-	-	-	< 0.05	-	-	-
28-Oct-03	0.005	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.003	27	-	-	0.04	-	-	-	-	-	-	-
12-Jul-04	0.005	30	0.75	0.0000	0.04	2.60	69.0	0.012	< 0.05	< 0.003	< 0.30	0.06
05-Oct-04	0.001	30	-	-	0.05	-	-	-	0.11	-	-	-
18-Jan-05	0.016	16	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	< 0.001	27	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.018	17	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	19	0.56	< 0.0004	< 0.03	1.80	49.0	< 0.005	< 0.05	< 0.003	< 0.30	0.02
14-Feb-06	0.003	24	0.56	< 0.0004	< 0.03	3.20	64.0	< 0.005	< 0.05	0.008	< 0.30	0.02
18-Apr-06	0.002	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.007	23	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.007	24	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	0.029	26	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	18	0.33	< 0.0004	< 0.03	8.00	280.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	0.004	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.010	26	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.017	34	1.13	-	-	7.66	119.0	-	-	-	-	-
30-Jun-09	< 0.003	37	0.83	-	-	3.93	134.0	-	-	-	-	-
14-Jul-09	< 0.003	22	0.40	-	-	11.30	456.0	-	-	-	-	-
06-Oct-09	0.044	39	2.10	< 0.0002	0.05	13.40	135.0	< 0.005	< 0.01	< 0.010	< 0.03	0.18
26-Jan-10	< 0.003	31	0.89	< 0.0002	< 0.03	< 5.00	88.4	< 0.005	< 0.01	< 0.010	< 0.03	0.08
19-Apr-11	< 0.003	30	0.81	-	-	< 5.00	67.6	-	-	-	-	-
31-Jul-12	< 0.003	< 5	0.03	-	-	46.70	49.9	-	-	-	-	-
12-Nov-13	< 0.010	35	0.86	< 0.0002	< 0.04	< 5.00	67.3	< 0.010	< 0.01	< 0.020	< 0.05	0.02
30-Mar-15	Frozen	-	-	-	-	-	-	-	-	-	-	-
18-May-16	< 0.010	36	0.87	-	-	2.50	67.9	-	-	-	-	-
18-Jul-17	< 0.010	33	0.83	< 0.0002	< 0.01	3.00	67.0	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.005	36	0.94	-	-	3.70	67.2	-	-	-	-	-
20-Mar-20	< 0.005	36	0.94	-	-	2.70	70.9	-	-	-	-	-
22-Jun-21	< 0.050	33	0.85	< 0.0002	< 0.04	2.58	74.6	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

BEDROCK UNIT	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	DISSOLVED METALS										
	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	-	0.003	0.025	1.0	[0.003]	0.005	-	0.05	-	0.2	0.3
<i>Monitoring Wells</i> MW-2D											
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.20	< 0.010	0.023	< 0.200	< 0.004	< 0.005	99	< 0.01	< 0.05	< 0.03	< 0.10
30-Mar-15	Frozen	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	DISSOLVED METALS											
BEDROCK UNIT	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 GROUNDWATER STANDARD	0.03	[35]	0.3	0.0007	0.1	-	20	0.01	0.05	[0.0005]	-	[2.0]
Monitoring Wells MW-2D												
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
18-May-00	-	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
16-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
13-May-02	-	-	-	-	-	-	-	-	-	-	-	-
04-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
14-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jun-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
26-Jan-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.010	34	0.84	< 0.0002	< 0.04	< 5.00	66.8	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
30-Mar-15	Frozen	-	-	-	-	-	-	-	-	-	-	-
18-May-16	-	-	-	-	-	-	-	-	-	-	-	-
18-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
20-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
22-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA			
ORGANIC PARAMETERS (DETECTED)			
BEDROCK UNIT	Acetone (ug/l)	Carbon Disulfide (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	50	1	
<i>Monitoring Wells</i> MW-2D	ANALYSIS METHOD		
17-Aug-99	EPA 8260	-	0
11-Nov-99	-	-	-
16-Feb-00	EPA 8260	-	0
18-May-00	EPA 8260	-	0
22-Aug-00	EPA 8260	-	0
13-Nov-00	-	-	-
16-May-01	-	-	-
10-Sep-01	EPA 8260	47	47
10-Dec-01	-	-	-
11-Feb-02	-	-	-
13-May-02	-	-	-
04-Nov-02	EPA 8260	-	0
18-Feb-03	-	-	-
06-May-03	-	-	-
08-Aug-03	-	-	-
28-Oct-03	-	-	-
14-Apr-04	-	-	-
12-Jul-04	-	-	-
05-Oct-04	-	-	-
18-Jan-05	-	-	-
05-Apr-05	-	-	-
02-Aug-05	-	-	-
01-Nov-05	EPA 8260	-	0
14-Feb-06	EPA 8260	-	0
18-Apr-06	-	-	-
25-Jul-06	-	-	-
17-Oct-06	-	-	-
18-Jan-07	-	-	-
03-Apr-07	EPA 8260	-	0
10-Jul-07	-	-	-
16-Oct-07	-	-	-
28-Mar-08	-	-	-
30-Jun-09	-	-	-
14-Jul-09	-	-	-
06-Oct-09	EPA 8260 < 10	-	0
26-Jan-10	EPA 8260 < 10	-	0
19-Apr-11	-	-	-
31-Jul-12	-	-	-
12-Nov-13	EPA 8260 < 10	-	0
30-Mar-15	-	-	-
18-May-16	-	-	-
18-Jul-17	EPA 8260 < 10	1.4	1
12-Dec-18	-	-	-
20-Mar-20	-	-	-
22-Jun-21	EPA 8260 < 5	< 1	1

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	FIELD PARAMETERS						INORGANIC PARAMETERS					
SURFACE WATER	TEMP.	Eh	D.O.	pH	SP.	TURB.	ALK.	HARD.	TDS	Cl	SO4	
	(deg. F)	(mV)	(mg/l)	(Std Units)	COND. (uS/cm)		(mg/l CaCO3)	(mg/l CaCO3)	(mg/l)	(mg/l)	(mg/l)	
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	500	-	-	
Surface Water SW-1												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-	
22-Aug-00	41	-37	8.4	7.6	725	2.8	-	121	264	393	83.9	64
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-	-
15-May-01	58	-57	94.0	8.5	632	14.0	-	121	165	278	58	24.7
11-Feb-02	39	-6	12.2	7.0	244	2.9	-	25	87	140	35	42.0
13-May-02	52	-24	9.0	7.3	162	15.9	-	100	110	230	34	31.0
04-Nov-02	46	-13	10.4	7.6	317	20.8	15	85	170	320	27	73.0
18-Feb-03	38	-46	10.9	7.7	240	3.8	-	79	140	220	42	53.0
06-May-03	63	-36	9.3	7.6	176	2.0	-	73	110	180	24	37.0
08-Aug-03	70	25	7.3	7.0	168	1.5	-	110	130	330	30	21.0
28-Oct-03	52	6	-	7.2	244	6.3	-	58	81	170	28	31.0
27-Jan-04	36	-21	9.7	7.3	277	24.5	-	98	100	210	25	24.0
14-Apr-04	44	-23	14.2	7.5	200	779.0	-	22	100	148	18	14.0
12-Jul-04	71	-	7.8	7.5	373	5.8	5	370	150	300	45	41.6
05-Oct-04	55	-60	-	8.0	291	1.3	-	140	130	235	25	19.1
18-Jan-05	36	-11	-	7.2	226	25.9	-	900	89	310	23	30.5
05-Apr-05	55	-19	-	7.9	149	7.7	-	30	43	< 25	15	18.0
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	53	-37	-	7.8	242	2.1	7	120	99	407	13	40.8
14-Feb-06	38	22	8.6	7.5	242	2.4	10	1000	100	212	18	36.5
18-Apr-06	64	-94	2.2	9.1	274	2.0	-	210	92	240	23	41.6
25-Jul-06	74	3	2.1	7.0	280	2.1	-	140	130	285	35	31.3
17-Oct-06	52	-75	7.2	8.8	312	18.4	-	120	120	288	54	30.9
18-Jan-07	36	-4	10.4	7.6	255	3.6	-	70	93	180	23	28.0
03-Apr-07	59	-2	8.2	7.7	223	2.5	15	92	80	240	32	33.3
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	37	-15	9.6	7.4	127	18.0	-	53	47	80	21	22.3
30-Jun-09	63	-67	7.0	7.9	271	7.1	-	78	132	270	30	26.7
14-Jul-09	64	-49	5.3	7.7	337	2.1	-	110	181	270	34	31.1
06-Oct-09	55	-28	6.7	7.3	448	0.6	8	130	199	400	90	37.8
03-Feb-10	34	-49	10.2	7.6	285	19.9	12	100	133	150	23	35.6
19-Apr-11	43	-76	10.0	7.9	184	9.6	-	34	37	83	18	< 5.0
31-Jul-12	68	-30	1.7	7.5	508	14.0	-	170	245	370	52	46.1
12-Nov-13	37	30	11.4	7.2	490	4.6	15	137	188	269	50	49.0
31-Mar-15	34	22	12.7	8.4	240	5.0	-	63	89	132	24	33.4
17-May-16	51	133	10.8	7.5	340	3.0	-	106	134	160	23	30.2
17-Jul-17	68	159	6.1	7.9	490	7.9	10	169	219	264	21	40.8
12-Dec-18	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Mar-20	47	69	12.5	8.4	249	11.4	-	71.2	94.2	145	17	19.4
21-Jun-21	65	37	5.7	7.5	420	2.2	18	158	184	247	18	26.0

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
SURFACE WATER	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.01
Surface Water SW-1											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-
22-Aug-00	< 1.0	-	-	< 0.05	< 0.01	< 1.0	< 5	< 3	4	< 0.001	-
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	1.7	< 10	< 3	5	0.076	-
11-Feb-02	< 0.2	-	-	0.60	< 0.50	< 0.5	33	< 4	4	< 0.005	-
13-May-02	< 2.0	-	-	0.30	< 0.50	0.9	20	< 4	8	< 0.005	-
04-Nov-02	< 0.2	< 0.5	< 0.010	< 0.20	< 0.50	< 0.5	< 20	< 4	4	0.006	< 0.010
18-Feb-03	< 0.2	-	-	0.90	< 0.50	0.6	37	< 4	4	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.5	37	< 4	5	0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	< 0.5	26	< 4	8	< 0.005	-
28-Oct-03	< 0.2	-	-	0.40	< 0.50	0.9	27	< 4	7	< 0.005	-
27-Jan-04	< 0.2	-	-	0.90	< 0.50	< 0.5	< 20	< 4	3	< 0.005	-
14-Apr-04	-	-	-	0.30	0.95	7.4	34	-	4	-	-
12-Jul-04	< 0.2	< 0.5	< 0.010	0.30	< 0.50	< 0.5	< 20	< 4	5	0.009	< 0.01
05-Oct-04	< 0.2	-	-	0.80	< 0.50	< 0.5	< 20	8	6	< 0.005	-
18-Jan-05	< 0.2	-	-	0.93	< 0.50	< 0.5	< 20	< 4	3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.27	< 0.50	< 0.5	< 20	< 4	4	< 0.005	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.2	< 0.5	< 0.010	0.49	< 0.50	< 0.5	< 20	< 4	4	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.5	< 0.010	0.72	< 0.50	< 0.5	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.5	22	< 4	4	< 0.005	-
25-Jul-06	< 0.2	-	-	0.23	< 0.50	< 0.5	< 20	< 4	5	< 0.005	-
17-Oct-06	< 20.0	-	-	0.25	< 0.50	< 0.5	45	7	14	< 0.005	-
18-Jan-07	< 20.0	-	-	1.06	< 0.50	< 0.5	20	< 4	5	< 0.005	-
03-Apr-07	< 0.2	< 0.5	< 0.010	0.67	< 0.50	< 0.5	< 20	< 4	4	< 0.005	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-
28-Mar-08	< 0.2	-	-	1.06	< 0.50	0.6	< 20	< 4	4	< 0.005	-
30-Jun-09	< 2.0	-	-	0.35	< 0.50	0.7	31	< 4	7	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	< 0.5	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 0.2	< 0.5	< 0.010	< 0.20	< 0.50	< 0.5	< 20	< 4	4	< 0.005	< 0.01
03-Feb-10	< 2.0	< 0.5	< 0.010	1.86	< 0.50	0.7	21	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.21	< 0.50	< 0.5	< 20	< 4	4	< 0.005	-
31-Jul-12	< 8.0	-	-	0.14	< 0.50	< 0.5	< 20	< 4	6	< 0.005	-
12-Nov-13	< 0.2	< 0.2	< 0.010	< 0.05	< 0.02	0.5	23	< 2	4	< 0.010	< 0.01
31-Mar-15	< 0.2	-	-	0.46	< 0.02	0.3	< 10	< 2	4	< 0.010	-
17-May-16	< 0.2	-	-	< 0.05	< 0.02	0.4	< 10	< 2	4	< 0.015	-
17-Jul-17	< 0.2	0.1	-	1.40	0.02	0.4	< 10	< 2	4	< 0.010	< 0.01
12-Dec-18	DRY	-	-	-	-	-	-	-	-	-	-
19-Mar-20	< 1.0	-	-	< 1.00	< 0.05	0.3	9	< 2	4	< 0.005	-
21-Jun-21	< 1.0	< 0.2	< 0.010	< 1.00	< 0.05	0.3	11	< 2	4	< 0.005	< 0.01

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	TOTAL METALS										
SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.000	1.4	-	257	-	15	0.3
Surface Water SW-1											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-
22-Aug-00	-	-	-	-	-	< 0.005	75.8	-	-	-	0.21
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	< 0.005	48.6	-	-	-	1.78
11-Feb-02	-	-	-	-	-	< 0.005	24.0	-	-	-	0.22
13-May-02	-	-	-	-	-	< 0.005	32.0	-	-	-	1.20
04-Nov-02	0.36	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	50.0	< 0.05	< 0.05	< 0.02	0.67
18-Feb-03	-	-	-	-	-	< 0.005	38.0	-	-	-	0.45
06-May-03	-	-	-	-	-	0.006	31.0	-	-	-	0.32
08-Aug-03	-	-	-	-	-	< 0.005	37.0	-	-	-	0.12
28-Oct-03	-	-	-	-	-	< 0.005	22.0	-	-	-	0.41
27-Jan-04	-	-	-	-	-	< 0.005	28.0	-	-	-	0.69
14-Apr-04	-	-	-	-	-	0.012	18.0	-	-	-	67.00
12-Jul-04	0.39	< 0.003	0.005	< 0.300	< 0.005	< 0.005	42.0	< 0.05	< 0.05	< 0.02	0.69
05-Oct-04	-	-	-	-	-	< 0.005	37.0	-	-	-	0.14
18-Jan-05	-	-	-	-	-	< 0.005	24.0	-	-	-	0.68
05-Apr-05	-	-	-	-	-	< 0.005	12.0	-	-	-	0.56
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	0.07	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	28.0	< 0.05	< 0.05	< 0.02	0.21
14-Feb-06	0.11	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	29.0	< 0.05	< 0.05	0.06	0.14
18-Apr-06	-	-	-	-	-	< 0.005	26.0	-	-	-	0.18
25-Jul-06	-	-	-	-	-	< 0.005	36.0	-	-	-	0.22
17-Oct-06	-	-	-	-	-	< 0.005	35.0	-	-	-	0.59
18-Jan-07	-	-	-	-	-	< 0.005	25.0	-	-	-	0.21
03-Apr-07	0.08	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	22.0	< 0.05	< 0.05	< 0.02	0.13
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-
28-Mar-08	-	-	-	-	-	< 0.005	12.7	-	-	-	1.28
30-Jun-09	-	-	-	-	-	< 0.005	36.8	-	-	-	0.44
14-Jul-09	-	-	-	-	-	< 0.005	50.9	-	-	-	0.13
06-Oct-09	< 0.10	< 0.030	< 0.010	0.069	< 0.003	< 0.005	56.2	< 0.01	< 0.02	< 0.01	0.15
03-Feb-10	0.24	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	36.0	< 0.01	< 0.02	< 0.01	0.34
19-Apr-11	-	-	-	-	-	< 0.005	14.8	-	-	-	0.22
31-Jul-12	-	-	-	-	-	< 0.005	71.8	-	-	-	8.57
12-Nov-13	1.30	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	53.5	< 0.01	< 0.05	< 0.03	2.10
31-Mar-15	-	-	-	-	-	< 0.002	24.0	-	-	-	0.23
17-May-16	-	-	-	-	-	< 0.002	37.2	-	-	-	0.22
17-Jul-17	0.26	< 0.020	< 0.015	0.058	< 0.002	< 0.002	63.8	< 0.004	< 0.004	< 0.01	0.34
12-Dec-18	DRY	-	-	-	-	-	-	-	-	-	-
19-Mar-20	-	-	-	-	-	< 0.005	26.8	-	-	-	0.69
21-Jun-21	< 0.10	< 0.060	< 0.010	0.052	< 0.003	< 0.005	54.4	< 0.01	< 0.05	< 0.02	0.28

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	TOTAL METALS											
SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	4	-	-	0.0002	117	-	-	0.001	0.0001	0.008	-	0.30
Surface Water SW-1												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	DRY	-	-	-	-	-	-	-	-	-	-	-
22-Aug-00	0.002	18	0.04	-	-	2.88	35.3	-	-	-	-	-
13-Nov-00	DRY	-	-	-	-	-	-	-	-	-	-	-
15-May-01	0.004	11	0.66	-	-	3.28	30.1	-	-	-	-	-
11-Feb-02	0.001	7	-	-	< 0.03	-	-	-	0.21	-	-	-
13-May-02	0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
04-Nov-02	0.002	11	0.28	< 0.0004	0.07	1.60	12.0	< 0.010	< 0.05	< 0.003	< 0.30	0.02
18-Feb-03	< 0.001	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
06-May-03	< 0.001	8	-	-	< 0.03	-	-	-	0.12	-	-	-
08-Aug-03	< 0.001	9	-	-	0.05	-	-	-	< 0.50	-	-	-
28-Oct-03	< 0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.001	8	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.076	14	-	-	0.11	-	-	-	-	-	-	-
12-Jul-04	0.002	10	0.19	0.0000	0.03	3.20	20.0	< 0.005	< 0.05	< 0.003	< 0.30	0.02
05-Oct-04	0.002	10	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-05	< 0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	< 0.001	3	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.001	7	0.02	< 0.0004	< 0.03	2.10	14.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.003	8	< 0.02	< 0.0004	< 0.03	2.50	12.0	0.016	< 0.05	0.006	< 0.30	0.01
18-Apr-06	< 0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	< 0.003	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	6	< 0.02	< 0.0004	< 0.03	2.00	11.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	DRY	-	-	-	-	-	-	-	-	-	-	-
28-Mar-08	< 0.003	4	0.03	-	-	1.46	13.0	-	-	-	-	-
30-Jun-09	< 0.003	10	0.06	-	-	3.47	21.0	-	-	-	-	-
14-Jul-09	< 0.003	13	0.13	-	-	5.17	19.8	-	-	-	-	-
06-Oct-09	< 0.003	14	0.17	< 0.0002	< 0.03	6.92	40.4	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
03-Feb-10	< 0.003	10	0.05	< 0.0002	< 0.03	< 5.00	14.3	< 0.005	< 0.01	< 0.010	< 0.03	0.01
19-Apr-11	< 0.003	< 5	< 0.01	-	-	< 5.00	9.3	-	-	-	-	-
31-Jul-12	< 0.015	16	1.65	-	-	< 5.00	28.5	-	-	-	-	-
12-Nov-13	< 0.010	13	0.19	< 0.0002	< 0.04	< 5.00	23.3	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
31-Mar-15	< 0.010	7	0.01	-	-	3.00	14.1	-	-	-	-	-
17-May-16	< 0.010	10	0.02	-	-	3.10	14.8	-	-	-	-	-
17-Jul-17	< 0.010	14	0.28	< 0.0002	< 0.01	1.90	11.6	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Mar-20	< 0.050	7	0.07	-	-	< 2.00	10.1	-	-	-	-	-
21-Jun-21	< 0.050	12	0.39	< 0.0002	< 0.04	2.75	11.1	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA	
DISSOLVED METALS	
SURFACE WATER	Al (mg/l) Sb (mg/l) As (mg/l) Ba (mg/l) Be (mg/l) Cd (mg/l) Ca (mg/l) Cr (mg/l) Co (mg/l) Cu (mg/l) Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	- - - - - - - - - - -
Surface Water SW-1	
17-Aug-99	DRY - - - - - - - - - -
11-Nov-99	DRY - - - - - - - - - -
16-Feb-00	DRY - - - - - - - - - -
18-May-00	DRY - - - - - - - - - -
22-Aug-00	- - - - - - - - - -
13-Nov-00	DRY - - - - - - - - - -
15-May-01	- - - - - - - - - -
11-Feb-02	- - - - - - - - - -
13-May-02	- - - - - - - - - -
04-Nov-02	- - - - - - - - - -
18-Feb-03	- - - - - - - - - -
06-May-03	- - - - - - - - - -
08-Aug-03	- - - - - - - - - -
28-Oct-03	- - - - - - - - - -
27-Jan-04	- - - - - - - - - -
14-Apr-04	- - - - - - - - - -
12-Jul-04	- - - - - - - - - -
05-Oct-04	- - - - - - - - - -
18-Jan-05	- - - - - - - - - -
05-Apr-05	- - - - - - - - - -
02-Aug-05	DRY - - - - - - - - - -
01-Nov-05	- - - - - - - - - -
14-Feb-06	- - - - - - - - - -
18-Apr-06	- - - - - - - - - -
25-Jul-06	- - - - - - - - - -
17-Oct-06	- - - - - - - - - -
18-Jan-07	- - - - - - - - - -
03-Apr-07	- - - - - - - - - -
10-Jul-07	DRY - - - - - - - - - -
16-Oct-07	DRY - - - - - - - - - -
28-Mar-08	- - - - - - - - - -
30-Jun-09	- - - - - - - - - -
14-Jul-09	- - - - - - - - - -
06-Oct-09	- - - - - - - - - -
03-Feb-10	- - - - - - - - - -
19-Apr-11	- - - - - - - - - -
31-Jul-12	- - - - - - - - - -
12-Nov-13	- - - - - - - - - -
31-Mar-15	- - - - - - - - - -
17-May-16	- - - - - - - - - -
17-Jul-17	- - - - - - - - - -
12-Dec-18	DRY - - - - - - - - - -
19-Mar-20	- - - - - - - - - -
21-Jun-21	- - - - - - - - - -

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

[illegible]

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA		
ORGANIC PARAMETERS (DETECTED)		
SURFACE WATER	Toluene (ug/l)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards	5	
Surface Water		
SW-1	ANALYSIS METHOD	
17-Aug-99	DRY -	-
11-Nov-99	DRY -	-
16-Feb-00	DRY -	-
18-May-00	DRY -	-
22-Aug-00	- -	-
13-Nov-00	DRY -	-
15-May-01	- -	-
11-Feb-02	- -	-
13-May-02	- -	-
04-Nov-02	EPA 8260 -	-
18-Feb-03	- -	-
06-May-03	- -	-
08-Aug-03	- -	-
28-Oct-03	- -	-
27-Jan-04	- -	-
14-Apr-04	- -	-
12-Jul-04	EPA 8260 -	-
05-Oct-04	- -	-
18-Jan-05	- -	-
05-Apr-05	- -	-
02-Aug-05	- -	-
01-Nov-05	EPA 8260 4	4
14-Feb-06	EPA 8260 < 3	< 3
18-Apr-06	- -	-
25-Jul-06	- -	-
17-Oct-06	- -	-
18-Jan-07	- -	-
03-Apr-07	EPA 8260 < 3	< 3
10-Jul-07	- -	-
16-Oct-07	- -	-
28-Mar-08	- -	-
30-Jun-09	- -	-
14-Jul-09	- -	-
06-Oct-09	EPA 8260 < 5	0
03-Feb-10	EPA 8260 < 5	0
19-Apr-11	- -	-
31-Jul-12	- -	-
12-Nov-13	EPA 8260 < 1	0
31-Mar-15	- -	-
17-May-16	- -	-
17-Jul-17	EPA 8260 < 1	0
12-Dec-18	- -	-
19-Mar-20	- -	-
21-Jun-21	EPA 8260 < 1	0

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA												
SURFACE WATER	FIELD PARAMETERS						INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	D.O. (mg/l)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
<i>Surface Water</i> SW-2												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	65	-79	11.4	8.2	350	7.2	25	88.7	117	214	34	25.0
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	44	7	-	8.0	516	3.5	-	135	188	263	49	40.0
15-May-01	59	3	9.6	8.1	553	5.6	-	133	171	283	66	25.3
11-Feb-02	38	11	11.0	6.6	305	5.0	-	50	100	210	48	33.0
13-May-02	53	-40	9.5	7.6	80	14.5	-	38	49	95	13	21.0
04-Nov-02	46	-35	10.2	8.0	491	0.9	9	110	180	380	96	88.0
18-Feb-03	35	-33	10.6	7.4	232	6.5	-	740	130	260	60	39.0
06-May-03	52	-31	9.4	7.5	189	2.3	-	85	100	220	46	31.0
08-Aug-03	69	22	9.2	7.0	166	2.4	-	120	140	250	37	5.0
28-Oct-03	49	11	-	7.3	208	4.0	-	78	83	150	22	22.0
27-Jan-04	35	-20	11.7	7.3	236	32.9	-	82	93	220	25	37.0
14-Apr-04	45	18	13.6	7.5	266	13.7	-	50	64	145	30	23.0
12-Jul-04	64	-	7.7	7.2	401	1.8	10	280	170	328	55	25.1
05-Oct-04	52	-48	-	7.8	284	1.8	-	160	130	265	34	25.8
18-Jan-05	35	-7	-	7.3	249	12.2	-	200	81	310	31	24.8
05-Apr-05	46	-13	-	7.7	131	12.5	-	35	50	< 25	17	12.6
02-Aug-05	69	39	-	6.9	436	5.8	-	240	170	332	100	24.6
01-Nov-05	54	-42	-	7.8	244	1.5	7	81	89	232	14	23.1
14-Feb-06	41	27	2.8	7.3	244	2.0	10	740	95	182	24	27.8
18-Apr-06	55	-51	7.6	8.4	189	1.5	-	80	83	147	32	21.9
25-Jul-06	72	16	10.4	6.7	284	3.0	-	150	120	305	46	20.6
17-Oct-06	51	-20	10.8	7.8	221	37.5	-	120	120	225	39	21.3
18-Jan-07	33	9	13.6	7.5	161	2.1	-	72	98	152	18	21.1
03-Apr-07	49	4	7.8	7.6	163	2.7	15	71	83	218	23	18.3
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	57	2	6.1	6.8	324	1.5	-	210	158	376	84	54.5
28-Mar-08	37	-15	9.3	7.3	122	15.1	-	29	42	40	14	15.9
30-Jun-09	63	-78	7.1	8.1	274	3.5	-	100	149	260	29	19.0
14-Jul-09	65	-43	5.8	7.6	377	1.9	-	130	178	360	49	20.4
06-Oct-09	53	-55	7.8	7.8	547	1.5	8	160	234	420	137	24.9
03-Feb-10	34	-50	9.9	7.6	256	4.5	< 5	93	122	1800	34	24.9
19-Apr-11	42	-71	10.9	7.8	125	11.4	-	49	35	73	12	< 5.0
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	DRY	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	33	23	12.7	8.7	240	3.7	-	56	80	96	18	21.8
17-May-16	50	70	-	7.6	300	4.1	-	104	125	138	15	25.8
17-Jul-17	66	159	5.9	7.9	490	6.0	15	182	219	270	29	28.0
12-Dec-18	38	200	12.4	7.1	281	2.7	-	93	122	166	15	16.5
19-Mar-20	45	123	13.9	8.2	262	5.5	-	77	98	154	19	19.5
21-Jun-21	66	96	4.9	7.4	404	3.1	16	151	172	235	21	24.4

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
SURFACE WATER	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.0052
Surface Water SW-2											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	< 1.0	0.1	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	5	< 0.004	< 0.01
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	1.0	-	-	< 0.10	< 0.10	1.10	< 10	< 4	5	< 0.005	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	3	5	0.024	-
11-Feb-02	< 0.2	-	-	0.30	< 0.50	< 0.50	25	< 4	5	< 0.005	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	22	< 4	6	< 0.005	-
04-Nov-02	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	5	< 0.005	< 0.01
18-Feb-03	< 0.2	-	-	0.60	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	22	< 4	4	< 0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	0.60	26	< 4	7	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	1.40	21	< 4	6	< 0.005	-
27-Jan-04	< 0.2	-	-	0.50	< 0.50	< 0.50	20	< 4	3	< 0.005	-
14-Apr-04	-	-	-	-	-	-	17	-	8	-	-
12-Jul-04	< 0.2	0.2	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	5	0.0043	< 0.01
05-Oct-04	< 0.2	-	-	0.80	< 0.50	< 0.50	< 20	< 4	6	< 0.005	-
18-Jan-05	< 0.2	-	-	0.41	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
05-Apr-05	< 0.2	-	-	0.24	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
02-Aug-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	0.073	-
01-Nov-05	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.5	< 0.01	0.34	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	8	< 0.005	-
17-Oct-06	< 20.0	-	-	< 0.20	< 0.50	1.65	54	11	17	< 0.005	-
18-Jan-07	< 20.0	-	-	0.62	< 0.50	< 0.50	22	< 4	4	< 0.005	-
03-Apr-07	< 0.2	< 0.5	< 0.01	0.28	< 0.50	< 0.50	< 20	< 4	3	< 0.005	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	9	4	< 0.005	-
28-Mar-08	< 0.2	-	-	0.55	< 0.50	0.60	< 20	< 4	5	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	35	< 4	7	< 0.005	-
14-Jul-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
06-Oct-09	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
03-Feb-10	< 2.0	< 0.5	< 0.01	0.63	< 0.50	0.70	< 20	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.10	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-
12-Nov-13	DRY	-	-	-	-	-	-	-	-	-	-
31-Mar-15	< 0.2	-	-	0.30	< 0.02	0.31	< 10	3	3	< 0.010	-
17-May-16	< 0.2	-	-	0.12	< 0.02	0.27	< 10	< 2	4	< 0.010	-
17-Jul-17	< 0.2	0.1	-	0.92	0.04	1.50	20	< 2	5	< 0.010	< 0.01
12-Dec-18	< 1.0	-	-	1.70	< 0.05	0.40	9	< 2	4	< 0.005	-
19-Mar-20	< 1.0	-	-	< 1.00	< 0.05	0.29	11	< 2	5	< 0.005	-
21-Jun-21	< 1.0	< 0.2	< 0.01	< 1.00	< 0.05	0.38	10	< 2	4	< 0.005	< 0.01

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	TOTAL METALS										
SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.0	1.3	-	240	-	15	0.3
Surface Water SW-2											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	0.24	< 0.050	< 0.002	0.033	< 0	< 0.005	33.9	< 0.01	< 0.01	< 0.02	0.66
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	< 0.005	54.3	-	-	-	0.22
15-May-01	-	-	-	-	-	< 0.005	49.8	-	-	-	0.31
11-Feb-02	-	-	-	-	-	< 0.005	30.0	-	-	-	0.51
13-May-02	-	-	-	-	-	< 0.005	14.0	-	-	-	0.74
04-Nov-02	0.13	< 0.003	0.012	< 0.300	< 0.01	< 0.005	54.0	< 0.05	< 0.05	< 0.02	0.10
18-Feb-03	-	-	-	-	-	< 0.005	37.0	-	-	-	0.17
06-May-03	-	-	-	-	-	< 0.005	30.0	-	-	-	0.21
08-Aug-03	-	-	-	-	-	< 0.005	43.0	-	-	-	0.22
28-Oct-03	-	-	-	-	-	< 0.005	24.0	-	-	-	0.49
27-Jan-04	-	-	-	-	-	< 0.005	26.0	-	-	-	1.80
14-Apr-04	-	-	-	-	-	-	18.0	-	-	-	0.67
12-Jul-04	0.13	< 0.003	0.004	< 0.300	< 0.005		51.0	< 0.05	< 0.05	< 0.02	0.36
05-Oct-04	-	-	-	-	-	< 0.005	39.0	-	-	-	0.24
18-Jan-05	-	-	-	-	-	< 0.005	23.0	-	-	-	1.10
05-Apr-05	-	-	-	-	-	< 0.005	14.0	-	-	-	0.84
02-Aug-05	-	-	-	-	-	< 0.005	52.0	-	-	-	0.31
01-Nov-05	0.07	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	26.0	< 0.05	< 0.05	0.05	0.21
14-Feb-06	0.13	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	28.0	< 0.05	< 0.05	0.05	0.30
18-Apr-06	-	-	-	-	-	< 0.005	24.0	-	-	-	0.19
25-Jul-06	-	-	-	-	-	< 0.005	36.0	-	-	-	0.31
17-Oct-06	-	-	-	-	-	< 0.005	35.0	-	-	-	2.00
18-Jan-07	-	-	-	-	-	< 0.005	28.0	-	-	-	0.28
03-Apr-07	0.08	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	24.0	< 0.05	< 0.05	< 0.02	0.25
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	< 0.005	45.7	-	-	-	0.10
28-Mar-08	-	-	-	-	-	< 0.005	12.0	-	-	-	0.94
30-Jun-09	-	-	-	-	-	< 0.005	43.3	-	-	-	0.32
14-Jul-09	-	-	-	-	-	< 0.005	51.4	-	-	-	0.14
06-Oct-09	< 0.10	< 0.030	< 0.010	0.064	< 0.003	< 0.005	69.3	< 0.01	< 0.02	< 0.01	0.27
03-Feb-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	34.3	< 0.01	< 0.02	< 0.01	0.19
19-Apr-11	-	-	-	-	-	< 0.005	13.9	-	-	-	0.19
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-
12-Nov-13	DRY	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	< 0.002	22.1	-	-	-	0.15
17-May-16	-	-	-	-	-	< 0.002	35.6	-	-	-	0.55
17-Jul-17	0.35	< 0.020	< 0.015	0.056	< 0.002	< 0.002	63.8	< 0.004	< 0.004	< 0.01	0.29
12-Dec-18	-	-	-	-	-	< 0.005	34.5	-	-	-	0.22
19-Mar-20	-	-	-	-	-	< 0.005	28.0	-	-	-	0.38
21-Jun-21	0.94	< 0.060	< 0.010	0.055	< 0.003	< 0.005	50.9	< 0.01	< 0.05	< 0.02	0.89

SURFACE WATER	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	TOTAL METALS											
	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	4	-	-	0.0002	110	-	-	0.001	0.0001	0.008	-	0.30
<i>Surface Water</i> SW-2												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	0.003	8	0.18	< 0.0002	< 0.01	1.93	18.1	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	0.004	13	0.14	-	-	3.18	28.3	-	-	-	-	-
15-May-01	0.002	11	0.20	-	-	3.08	30.0	-	-	-	-	-
11-Feb-02	0.001	7	-	-	< 0.03	-	-	-	< 0.50	-	-	-
13-May-02	0.003	3	-	-	< 0.03	-	-	-	< 0.50	-	-	-
04-Nov-02	0.002	11	0.05	< 0.0004	0.05	2.90	51.0	< 0.005	< 0.50	< 0.003	< 0.30	0.02
18-Feb-03	< 0.001	9	-	-	0.04	-	-	-	< 0.50	-	-	-
06-May-03	< 0.001	7	-	-	< 0.03	-	-	-	< 0.50	-	-	-
08-Aug-03	0.001	9	-	-	0.06	-	-	-	< 0.50	-	-	-
28-Oct-03	0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.001	4	-	-	-	-	-	-	-	-	-	-
12-Jul-04	< 0.001	12	0.30	0.0000	0.03	2.70	38.0	0.007	< 0.05	< 0.003	< 0.30	0.03
05-Oct-04	< 0.001	9	-	-	0.04	-	-	-	< 0.05	-	-	-
18-Jan-05	0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.002	4	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.002	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
01-Nov-05	< 0.001	6	0.08	< 0.0004	< 0.03	1.20	17.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.004	7	0.06	< 0.0004	< 0.03	1.90	15.0	< 0.005	< 0.05	0.004	< 0.30	< 0.01
18-Apr-06	< 0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	8	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.004	8	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	6	0.05	< 0.0004	< 0.03	1.30	11.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	0.006	11	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	< 0.003	3	0.03	-	-	1.04	10.6	-	-	-	-	-
30-Jun-09	< 0.003	10	0.09	-	-	2.72	22.2	-	-	-	-	-
14-Jul-09	< 0.003	12	0.17	-	-	2.70	30.8	-	-	-	-	-
06-Oct-09	< 0.003	15	0.19	< 0.0002	< 0.03	< 5.00	63.2	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
03-Feb-10	< 0.003	9	0.08	< 0.0002	< 0.03	< 5.00	20.2	< 0.005	< 0.01	< 0.010	< 0.03	0.01
19-Apr-11	< 0.003	< 5	0.01	-	-	< 5.00	6.8	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	DRY	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	< 0.010	6	0.01	-	-	2.00	10.0	-	-	-	-	-
17-May-16	< 0.010	9	0.08	-	-	2.00	9.8	-	-	-	-	-
17-Jul-17	< 0.010	15	0.11	< 0.0002	< 0.01	2.90	15.0	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	9	0.08	-	-	< 2.00	10.3	-	-	-	-	-
19-Mar-20	< 0.050	7	0.06	-	-	< 2.00	11.4	-	-	-	-	-
21-Jun-21	< 0.050	11	0.15	< 0.0002	< 0.04	3.00	14.6	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA	
DISSOLVED METALS	
SURFACE WATER	Al (mg/l) Sb (mg/l) As (mg/l) Ba (mg/l) Be (mg/l) Cd (mg/l) Ca (mg/l) Cr (mg/l) Co (mg/l) Cu (mg/l) Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	- - - - - - - - - - -
Surface Water SW-2	
17-Aug-99	DRY - - - - - - - - - -
11-Nov-99	DRY - - - - - - - - - -
16-Feb-00	DRY - - - - - - - - - -
18-May-00	- - - - - - - - - -
22-Aug-00	DRY - - - - - - - - - -
13-Nov-00	- - - - - - - - - -
15-May-01	- - - - - - - - - -
11-Feb-02	- - - - - - - - - -
13-May-02	- - - - - - - - - -
04-Nov-02	- - - - - - - - - -
18-Feb-03	- - - - - - - - - -
06-May-03	- - - - - - - - - -
08-Aug-03	- - - - - - - - - -
28-Oct-03	- - - - - - - - - -
27-Jan-04	- - - - - - - - - -
14-Apr-04	- - - - - - - - - -
12-Jul-04	- - - - - - - - - -
05-Oct-04	- - - - - - - - - -
18-Jan-05	- - - - - - - - - -
05-Apr-05	- - - - - - - - - -
02-Aug-05	- - - - - - - - - -
01-Nov-05	- - - - - - - - - -
14-Feb-06	- - - - - - - - - -
18-Apr-06	- - - - - - - - - -
25-Jul-06	- - - - - - - - - -
17-Oct-06	- - - - - - - - - -
18-Jan-07	- - - - - - - - - -
03-Apr-07	- - - - - - - - - -
10-Jul-07	DRY - - - - - - - - - -
16-Oct-07	- - - - - - - - - -
28-Mar-08	- - - - - - - - - -
30-Jun-09	- - - - - - - - - -
14-Jul-09	- - - - - - - - - -
06-Oct-09	- - - - - - - - - -
03-Feb-10	- - - - - - - - - -
19-Apr-11	- - - - - - - - - -
31-Jul-12	DRY - - - - - - - - - -
12-Nov-13	DRY - - - - - - - - - -
31-Mar-15	- - - - - - - - - -
17-May-16	- - - - - - - - - -
17-Jul-17	- - - - - - - - - -
12-Dec-18	- - - - - - - - - -
19-Mar-20	- - - - - - - - - -
21-Jun-21	- - - - - - - - - -

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA	
DISSOLVED METALS	
SURFACE WATER	Pb (mg/l) Mg (mg/l) Mn (mg/l) Hg (mg/l) Ni (mg/l) K (mg/l) Na (mg/l) Se (mg/l) Ag (mg/l) Tl (mg/l) V (mg/l) Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	- - - - - - - - - - - -
Surface Water SW-2	
17-Aug-99	DRY - - - - - - - - - - - -
11-Nov-99	DRY - - - - - - - - - - - -
16-Feb-00	DRY - - - - - - - - - - - -
18-May-00	- - - - - - - - - - - -
22-Aug-00	DRY - - - - - - - - - - - -
13-Nov-00	- - - - - - - - - - - -
15-May-01	- - - - - - - - - - - -
11-Feb-02	- - - - - - - - - - - -
13-May-02	- - - - - - - - - - - -
04-Nov-02	- - - - - - - - - - - -
18-Feb-03	- - - - - - - - - - - -
06-May-03	- - - - - - - - - - - -
08-Aug-03	- - - - - - - - - - - -
28-Oct-03	- - - - - - - - - - - -
27-Jan-04	- - - - - - - - - - - -
14-Apr-04	- - - - - - - - - - - -
12-Jul-04	- - - - - - - - - - - -
05-Oct-04	- - - - - - - - - - - -
18-Jan-05	- - - - - - - - - - - -
05-Apr-05	- - - - - - - - - - - -
02-Aug-05	- - - - - - - - - - - -
01-Nov-05	- - - - - - - - - - - -
14-Feb-06	- - - - - - - - - - - -
18-Apr-06	- - - - - - - - - - - -
25-Jul-06	- - - - - - - - - - - -
17-Oct-06	- - - - - - - - - - - -
18-Jan-07	- - - - - - - - - - - -
03-Apr-07	- - - - - - - - - - - -
10-Jul-07	DRY - - - - - - - - - - - -
16-Oct-07	- - - - - - - - - - - -
28-Mar-08	- - - - - - - - - - - -
30-Jun-09	- - - - - - - - - - - -
14-Jul-09	- - - - - - - - - - - -
06-Oct-09	- - - - - - - - - - - -
03-Feb-10	- - - - - - - - - - - -
19-Apr-11	- - - - - - - - - - - -
31-Jul-12	DRY - - - - - - - - - - - -
12-Nov-13	DRY - - - - - - - - - - - -
31-Mar-15	- - - - - - - - - - - -
17-May-16	- - - - - - - - - - - -
17-Jul-17	- - - - - - - - - - - -
12-Dec-18	- - - - - - - - - - - -
19-Mar-20	- - - - - - - - - - - -
21-Jun-21	- - - - - - - - - - - -

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA		
ORGANIC PARAMETERS (DETECTED)		
SURFACE WATER		SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards		
<i>Surface Water</i>		
SW-2	ANALYSIS METHOD	
17-Aug-99	DRY	-
11-Nov-99	DRY	-
16-Feb-00	DRY	-
18-May-00	EPA 8260	0
22-Aug-00	DRY	-
13-Nov-00	-	-
15-May-01	-	-
11-Feb-02	-	-
13-May-02	-	-
04-Nov-02	EPA 8260	0
18-Feb-03	-	-
06-May-03	-	-
08-Aug-03	-	-
28-Oct-03	-	-
27-Jan-04	-	-
14-Apr-04	-	-
12-Jul-04	EPA 8260	0
05-Oct-04	-	-
18-Jan-05	-	-
05-Apr-05	-	-
02-Aug-05	-	-
01-Nov-05	EPA 8260	0
14-Feb-06	EPA 8260	0
18-Apr-06	-	-
25-Jul-06	-	-
17-Oct-06	-	-
18-Jan-07	-	-
03-Apr-07	EPA 8260	0
10-Jul-07	-	-
16-Oct-07	-	-
28-Mar-08	-	-
30-Jun-09	-	-
14-Jul-09	-	-
06-Oct-09	EPA 8260	0
03-Feb-10	EPA 8260	0
19-Apr-11	-	-
31-Jul-12	-	-
12-Nov-13	-	-
31-Mar-15	-	-
17-May-16	-	-
17-Jul-17	EPA 8260	0
12-Dec-18	-	-
19-Mar-20	-	-
21-Jun-21	EPA 8260	0

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA												
SURFACE WATER	FIELD PARAMETERS						INORGANIC PARAMETERS					
	TEMP. (deg. F)	Eh (mV)	D.O. (mg/l)	pH (Std Units)	SP. COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	ALK. (mg/l CaCO3)	HARD. (mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
Surface Water SW-4												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	64	-90	10.8	7.9	400	11.0	15	100	118	182	28	16.0
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	44	41	-	8.2	547	5.5	-	531	206	290	58	36.2
15-May-01	59	48	10.1	8.3	517	4.8	-	117	164	274	59	20.7
11-Feb-02	38	-17	11.8	7.2	186	50.6	-	73	91	130	10	29.0
13-May-02	54	-48	9.5	7.7	85	137.0	-	60	66	150	8	17.0
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-	-
06-May-03	59	-38	9.2	7.6	314	75.7	-	230	220	370	36	44.0
08-Aug-03	72	1	-	7.4	199	176.0	-	200	220	330	21	14.0
28-Oct-03	52	26	-	7.5	244	116.0	-	120	120	230	10	22.0
27-Jan-04	35	-29	10.2	7.6	463	7.3	-	170	160	370	64	73.0
14-Apr-04	44	-109	14.4	8.9	214	6.9	-	60	80	185	25	32.0
12-Jul-04	75	-	8.7	7.8	648	29.1	5	490	430	590	55	7.0
05-Oct-04	56	-72	-	8.2	606	40.3	-	540	430	690	37	12.2
18-Jan-05	35	-12	-	7.4	263	596.0	-	250	120	340	11	49.6
05-Apr-05	56	-32	-	8.0	256	37.6	-	110	110	150	13	15.6
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	51	-40	-	7.8	413	5.1	10	290	270	610	7	39.1
14-Feb-06	39	13	8.4	7.6	368	14.8	52	930	240	530	23	50.3
18-Apr-06	54	-18	7.8	7.9	217	49.7	-	120	150	177	12	28.4
25-Jul-06	70	-18	6.6	7.3	360	3.4	-	280	280	398	18	12.0
17-Oct-06	52	-24	8.6	7.9	244	151.0	-	110	120	283	39	20.0
18-Jan-07	36	-13	13.2	7.8	271	13.0	-	230	230	300	11	38.7
03-Apr-07	51	4	2.0	7.6	350	27.2	18	260	300	692	76	27.7
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	60	-43	9.4	7.5	449	7.1	-	220	302	624	131	118.0
28-Mar-08	37	-35	9.0	7.7	161	188.0	-	79	124	160	18	< 5.0
30-Jun-09	65	-48	6.1	7.6	719	7.4	-	210	256	620	173	17.0
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	57	-89	9.5	8.4	933	2.5	8	350	383	690	218	27.8
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	43	-59	10.8	7.5	155	7.3	-	50	43	90	11	< 5.0
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	37	14	12.7	8.2	480	1.7	10	180	185	282	43	20.5
31-Mar-15	35	40	17.1	8.5	230	6.1	-	67	82	124	1	< 2.0
17-May-16	50	95	10.7	7.8	310	8.8	-	117	127	144	20	< 15.9
17-Jul-17	67	195	6.6	7.8	520	5.8	10	202	202	289	42	12.4
12-Dec-18	38	180	13.3	7.7	308	2.2	-	118	139	189	14	11.7
19-Mar-20	45	196	12.8	8.2	240	10.5	-	82	95	147	13	14.2
21-Jun-21	65	114	8.1	7.8	441	8.5	12	164	182	257	32	16.0

SURFACE WATER	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.0052
<i>Surface Water</i> SW-4											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	< 1.0	0.3	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	5	< 0.004	< 0.01
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	< 1.0	-	-	< 0.10	< 0.10	2.74	< 10	< 4	5	< 0.005	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	< 3	4	0.011	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	48	< 4	8	0.009	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	38	< 4	11	< 0.005	-
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	72	< 4	13	0.009	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	1.10	55	< 4	13	0.025	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	4.80	35	< 4	8	< 0.005	-
27-Jan-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	42	< 4	5	< 0.005	-
14-Apr-04	-	-	-	0.40	-	-	33	-	11	-	-
12-Jul-04	< 0.2	5.0	< 0.01	< 0.20	< 0.50	< 0.50	87	< 4	< 3	0.011	< 0.01
05-Oct-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	35	< 4	< 3	0.007	-
18-Jan-05	< 0.2	-	-	0.87	< 0.50	< 0.50	33	< 4	5	< 0.005	-
05-Apr-05	< 0.2	-	-	0.26	< 0.50	< 0.50	31	< 4	8	< 0.005	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.2	13.0	< 0.01	< 0.20	< 0.50	< 0.50	112	5	< 3	0.016	< 0.01
14-Feb-06	< 0.2	12.0	< 0.01	0.36	< 0.50	< 0.50	89	< 4	< 3	0.011	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	29	< 4	5	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	39	< 4	9	< 0.005	-
17-Oct-06	< 20.0	-	-	0.61	< 0.50	< 0.50	41	< 4	11	< 0.005	-
18-Jan-07	< 20.0	-	-	0.34	< 0.50	< 0.50	25	< 4	7	< 0.005	-
03-Apr-07	< 0.2	4.9	< 0.01	< 0.20	< 0.50	0.81	< 20	< 4	7	< 0.005	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	< 2.0	-	-	< 0.20	< 0.50	0.65	< 20	6	10	< 0.005	-
28-Mar-08	< 20.0	-	-	< 0.20	< 0.50	0.50	26	< 4	6	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	0.74	46	< 4	10	< 0.005	-
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-
06-Oct-09	< 0.2	4.9	< 0.01	< 0.20	< 0.50	< 0.50	26	< 4	8	< 0.005	< 0.01
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-
19-Apr-11	< 0.8	-	-	0.06	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.2	1.4	< 0.01	< 0.05	< 0.02	0.37	13	< 2	4	< 0.010	< 0.01
31-Mar-15	< 0.2	-	-	0.19	< 0.02	0.48	< 10	< 2	4	< 0.010	-
17-May-16	< 0.2	-	-	< 0.05	< 0.02	0.23	< 10	< 2	4	< 0.010	-
17-Jul-17	< 0.2	2.5	-	0.16	< 0.02	0.36	18	< 2	6	< 0.010	< 0.01
12-Dec-18	< 1.0	-	-	1.00	0.10	0.43	16	< 2	5	< 0.005	-
19-Mar-20	< 1.0	-	-	< 1.00	< 0.05	0.25	11	< 2	4	< 0.005	-
21-Jun-21	< 1.0	0.9	< 0.01	< 1.00	< 0.05	0.30	8	< 2	4	< 0.005	< 0.01

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	TOTAL METALS										
SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.0	2.5	-	481	-	29	0.3
Surface Water SW-4											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-
18-May-00	0.13	< 0.050	< 0.002	0.030	< 0.002	< 0.005	34.7	< 0.01	< 0.01	< 0.02	0.20
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	< 0.005	59.6	-	-	-	0.57
15-May-01	-	-	-	-	-	< 0.005	47.7	-	-	-	0.17
11-Feb-02	-	-	-	-	-	< 0.005	26.0	-	-	-	1.70
13-May-02	-	-	-	-	-	< 0.005	18.0	-	-	-	3.80
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	< 0.005	62.0	-	-	-	4.40
08-Aug-03	-	-	-	-	-	< 0.005	64.0	-	-	-	8.00
28-Oct-03	-	-	-	-	-	< 0.005	32.0	-	-	-	5.00
27-Jan-04	-	-	-	-	-	< 0.005	45.0	-	-	-	0.61
14-Apr-04	-	-	-	-	-	0.005	21.0	-	-	-	3.10
12-Jul-04	0.52	< 0.003	0.015	< 0.300	< 0.005	< 0.005	120.0	< 0.05	0.05	< 0.02	2.50
05-Oct-04	-	-	-	-	-	< 0.005	120.0	-	-	-	2.20
18-Jan-05	-	-	-	-	-	< 0.005	32.0	-	-	-	2.70
05-Apr-05	-	-	-	-	-	< 0.005	30.0	-	-	-	3.70
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-
01-Nov-05	0.16	< 0.003	0.018	< 0.300	< 0.005	< 0.005	77.0	< 0.05	< 0.05	< 0.02	0.83
14-Feb-06	0.21	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	64.0	< 0.05	< 0.05	0.03	1.30
18-Apr-06	-	-	-	-	-	< 0.005	43.0	-	-	-	1.70
25-Jul-06	-	-	-	-	-	< 0.005	83.0	-	-	-	0.66
17-Oct-06	-	-	-	-	-	< 0.005	32.0	-	-	-	4.10
18-Jan-07	-	-	-	-	-	< 0.005	63.0	-	-	-	0.93
03-Apr-07	1.50	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	85.0	< 0.05	< 0.05	< 0.02	2.10
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	< 0.005	82.4	-	-	-	0.14
28-Mar-08	-	-	-	-	-	< 0.005	34.7	-	-	-	15.20
30-Jun-09	-	-	-	-	-	< 0.005	74.5	-	-	-	0.41
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-
06-Oct-09	< 0.10	< 0.030	< 0.010	0.111	< 0.003	< 0.005	114.0	< 0.01	< 0.02	< 0.01	0.15
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	< 0.005	17.0	-	-	-	0.33
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.20	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	54.4	< 0.01	< 0.05	< 0.03	< 0.10
31-Mar-15	-	-	-	-	-	< 0.002	23.0	-	-	-	0.30
17-May-16	-	-	-	-	-	< 0.002	36.5	-	-	-	0.30
17-Jul-17	0.68	< 0.020	< 0.015	0.051	< 0.002	< 0.002	57.3	< 0.004	< 0.004	< 0.01	0.58
12-Dec-18	-	-	-	-	-	< 0.005	39.7	-	-	-	0.58
19-Mar-20	-	-	-	-	-	< 0.005	27.5	-	-	-	0.66
21-Jun-21	0.55	< 0.060	< 0.010	0.046	< 0.003	< 0.005	54.2	< 0.01	< 0.05	< 0.02	0.48

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	TOTAL METALS											
SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	12	-	-	0.0002	209	-	-	0.001	0.0001	0.008	-	0.30
Surface Water SW-4												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	DRY	-	-	-	-	-	-	-	-	-	-	-
18-May-00	0.008	8	0.02	< 0.0002	< 0.01	1.82	15.2	< 0.002	< 0.01	< 0.001	< 0.01	< 0.02
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	0.006	14	0.08	-	-	2.96	31.2	-	-	-	-	-
15-May-01	0.002	11	0.03	-	-	2.28	24.0	-	-	-	-	-
11-Feb-02	0.002	6	-	-	< 0.03	-	-	-	< 0.50	-	-	-
13-May-02	0.004	5	-	-	< 0.03	-	-	-	< 0.50	-	-	-
04-Nov-02	DRY	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	DRY	-	-	-	-	-	-	-	-	-	-	-
06-May-03	0.003	16	-	-	< 0.03	-	-	-	< 0.50	-	-	-
08-Aug-03	0.004	15	-	-	0.08	-	-	-	< 0.50	-	-	-
28-Oct-03	0.004	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-
27-Jan-04	0.002	12	-	-	< 0.03	-	-	-	< 0.05	-	-	-
14-Apr-04	0.003	7	-	-	-	-	-	-	-	-	-	-
12-Jul-04	< 0.001	32	2.00	0.0001	0.06	2.70	50.0	< 0.005	< 0.05	< 0.003	< 0.30	0.08
05-Oct-04	< 0.001	33	-	-	0.05	-	-	-	< 0.05	-	-	-
18-Jan-05	0.010	11	-	-	0.04	-	-	-	< 0.05	-	-	-
05-Apr-05	0.001	10	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	DRY	-	-	-	-	-	-	-	-	-	-	-
01-Nov-05	< 0.001	18	0.13	< 0.0004	< 0.03	3.70	41.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
14-Feb-06	0.003	19	0.09	< 0.0004	< 0.03	4.00	36.0	< 0.005	< 0.05	0.007	< 0.30	< 0.01
18-Apr-06	0.001	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	< 0.003	19	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.006	10	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	< 0.003	17	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	< 0.003	21	0.17	< 0.0004	< 0.03	3.80	40.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	0.008	23	-	-	< 0.03	-	-	-	< 0.01	-	-	-
28-Mar-08	0.024	9	0.36	-	-	4.61	28.1	-	-	-	-	-
30-Jun-09	< 0.003	17	0.07	-	-	4.17	113.0	-	-	-	-	-
14-Jul-09	DRY	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	< 0.003	24	0.07	< 0.0200	< 0.03	5.76	167.0	< 0.005	< 0.01	< 0.010	< 0.03	< 0.01
03-Feb-10	DRY	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	< 0.003	< 5	0.03	-	-	< 5.00	7.3	-	-	-	-	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.010	12	< 0.02	< 0.0002	< 0.04	< 5.00	26.3	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02
31-Mar-15	< 0.010	6	0.02	-	-	1.90	10.2	-	-	-	-	-
17-May-16	< 0.010	9	0.03	-	-	1.80	14.6	-	-	-	-	-
17-Jul-17	< 0.010	14	0.03	< 0.0002	< 0.01	2.80	25.1	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01
12-Dec-18	< 0.050	10	0.10	-	-	2.10	12.9	-	-	-	-	-
19-Mar-20	< 0.050	6	0.05	-	-	< 2.00	9.6	-	-	-	-	-
21-Jun-21	< 0.050	11	0.02	< 0.0002	< 0.04	2.53	18.3	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA

DISSOLVED METALS

[illegible]

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA

DISSOLVED METALS

[illegible]

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA		
ORGANIC PARAMETERS (DETECTED)		
SURFACE WATER		SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards		
<i>Surface Water</i> SW-4	ANALYSIS METHOD	
17-Aug-99	DRY	-
11-Nov-99	DRY	-
16-Feb-00	DRY	-
18-May-00	EPA 8260	0
22-Aug-00	DRY	-
13-Nov-00	-	-
15-May-01	-	-
11-Feb-02	-	-
13-May-02	-	-
04-Nov-02	DRY	-
18-Feb-03	DRY	-
06-May-03	-	-
08-Aug-03	-	-
28-Oct-03	-	-
27-Jan-04	-	-
14-Apr-04	-	-
12-Jul-04	EPA 8260	0
05-Oct-04	-	-
18-Jan-05	-	-
05-Apr-05	-	-
02-Aug-05	-	-
01-Nov-05	EPA 8260	0
14-Feb-06	EPA 8260	0
18-Apr-06	-	-
25-Jul-06	-	-
17-Oct-06	-	-
18-Jan-07	-	-
03-Apr-07	EPA 8260	0
10-Jul-07	-	-
16-Oct-07	-	-
28-Mar-08	-	-
30-Jun-09	-	-
14-Jul-09	-	-
06-Oct-09	EPA 8260	0
03-Feb-10	-	-
19-Apr-11	-	-
31-Jul-12	-	-
12-Nov-13	EPA 8260	0
31-Mar-15	-	-
17-May-16	-	-
17-Jul-17	EPA 8260	0
12-Dec-18	-	-
19-Mar-20	-	-
21-Jun-21	EPA 8260	0

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	FIELD PARAMETERS						INORGANIC PARAMETERS					
SURFACE WATER	TEMP.	Eh	D.O.	pH	SP.			ALK.	HARD.			
	(deg. F)	(mV)	(mg/l)	(Std Units)	COND. (uS/cm)	TURB. (NTU)	COLOR (Units)	(mg/l CaCO3)	(mg/l CaCO3)	TDS (mg/l)	Cl (mg/l)	SO4 (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	> 5	6.5-8.5	-	-	-	-	-	500	-	-
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-	-
Surface Water SW-7												
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Feb-00	34	-26	12.2	7.8	410	15.0	30	68	103	211	65	24.0
18-May-00	64	-77	8.0	8.0	400	10.0	20	96	120	190	96	17.0
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	44	44	-	8.3	545	3.7	-	157	201	283	6	35.0
15-May-01	59	60	10.2	8.2	594	8.1	-	130	172	278	58	18.1
11-Feb-02	37	-8	11.6	6.8	244	12.1	-	57	93	250	40	25.0
13-May-02	53	-46	9.4	7.7	86	27.4	-	37	51	90	13	19.0
04-Nov-02	41	-54	12.6	8.3	558	2.3	7	110	220	540	95	87.0
18-Feb-03	35	-37	11.7	7.5	257	2.4	-	72	130	270	70	42.0
06-May-03	49	-26	10.8	7.4	200	3.7	-	97	100	220	56	26.0
08-Aug-03	66	8	-	7.5	182	3.8	-	140	140	280	44	15.0
28-Oct-03	47	20	-	7.4	205	19.2	-	88	82	180	19	21.0
27-Jan-04	39	-31	14.9	7.6	309	3.6	-	96	100	< 25	40	34.0
14-Apr-04	43	-22	14.2	7.5	206	23.3	-	51	66	152	30	20.0
12-Jul-04	64	-	8.7	7.5	496	35.8	5	230	200	425	91	23.1
05-Oct-04	49	-64	-	8.1	332	1.9	-	190	160	280	42	19.2
18-Jan-05	35	-15	-	7.5	230	5.2	-	250	88	270	29	25.7
05-Apr-05	41	-14	-	7.8	145	15.2	-	79	53	60	19	11.5
02-Aug-05	67	17	-	7.3	538	2.1	-	230	200	498	139	22.8
01-Nov-05	52	-72	-	8.4	245	1.8	5	100	100	322	10	23.1
14-Feb-06	39	-16	> 15.0	8.2	205	2.3	11	920	100	238	28	23.3
18-Apr-06	48	-39	10.7	8.2	228	2.7	-	89	95	135	29	20.1
25-Jul-06	70	-2	6.2	7.0	315	3.7	-	200	140	293	47	15.4
17-Oct-06	48	-59	13.2	8.5	289	2.2	-	160	160	292	44	13.0
18-Jan-07	35	19	> 15.0	7.2	182	3.2	-	84	97	145	20	16.4
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	54	-12	9.2	7.0	347	2.2	-	160	199	432	82	65.2
28-Mar-08	41	-24	9.2	7.5	233	24.2	-	42	49.7	80	10	13.1
30-Jun-09	63	-83	7.3	8.2	311	6.9	-	120	153	280	40	18.2
14-Jul-09	61	-86	6.8	8.3	443	4.2	-	160	203	330	55	15.9
06-Oct-09	50	-72	8.9	8.1	587	1.1	8	180	278	490	142	18.5
03-Feb-10	35	-33	10.2	7.3	309	4.6	8	120	156	280	47	24.6
19-Apr-11	44	-59	10.9	7.6	220	7.0	-	50	43	95	10	< 5.0
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	35	9	13.8	8.3	470	1.8	10	182	191	257	44	20.1
31-Mar-15	34	43	13.2	8.7	210	4.4	-	62	78	101	1	< 2.0
17-May-16	50	-77	11.2	7.6	320	1.8	-	117	133	139	18	< 22.6
17-Jul-17	67	201	7.2	7.9	570	3.1	10	199	237	322	27	59.7
12-Dec-18	37	201	13.5	7.5	311	6.3	-	119	136	189	13	12.0
19-Mar-20	45	216	13.6	8.3	243	7.1	-	82	96	143	14	15.9
21-Jun-21	63	127	5.3	7.7	506	6.7	10	174	223	302	26	63.9

SURFACE WATER	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	INORGANIC PARAMETERS										
	Br (mg/l)	BORON (mg/l)	Cr+6 (mg/l)	NO3-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	COD (mg/l)	BOD-5 (mg/l)	TOC (mg/l)	TOTAL PHENOLS (mg/l)	TOTAL CYANIDE (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	10	0.011	-	-	-	-	-	-	0.005	0.0052
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-
<i>Surface Water</i> SW-7											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	< 1.0	0.3	< 0.01	0.18	< 0.10	< 1.00	< 10	< 3	4	0.006	< 0.01
18-May-00	< 1.0	0.3	< 0.01	< 0.05	< 0.10	< 1.00	< 10	< 3	5	< 0.004	< 0.01
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	< 1.0	-	-	< 0.10	< 0.10	1.00	< 10	< 4	5	< 0.005	-
15-May-01	< 1.0	-	-	< 0.10	< 0.10	< 1.00	< 10	< 3	4	< 0.004	-
11-Feb-02	< 0.2	-	-	< 0.20	< 0.50	< 0.50	30	< 4	5	< 0.005	-
13-May-02	< 2.0	-	-	< 0.20	< 0.50	< 0.50	21	< 4	6	< 0.005	-
04-Nov-02	< 0.2	0.6	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	7	< 0.005	< 0.01
18-Feb-03	< 0.2	-	-	0.50	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
06-May-03	< 0.2	-	-	< 0.20	< 0.50	< 0.50	21	< 4	4	< 0.005	-
08-Aug-03	< 2.0	-	-	< 0.20	< 0.50	< 0.50	27	< 4	7	< 0.005	-
28-Oct-03	< 0.2	-	-	< 0.20	< 0.50	3.70	29	< 4	6	< 0.005	-
27-Jan-04	< 0.2	-	-	0.30	< 0.50	< 0.50	22	< 4	3	< 0.005	-
14-Apr-04	-	-	-	-	-	-	12	-	4	-	-
12-Jul-04	< 0.2	0.7	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	5	0.018	< 0.01
05-Oct-04	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	7	< 0.005	-
18-Jan-05	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	3	< 0.005	-
05-Apr-05	< 0.2	-	-	0.26	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
02-Aug-05	< 0.2	-	-	0.29	< 0.50	< 0.50	< 20	< 4	5	0.088	-
01-Nov-05	< 0.2	< 0.5	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
14-Feb-06	< 0.2	< 0.5	< 0.01	0.26	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
18-Apr-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	25	< 4	4	< 0.005	-
25-Jul-06	< 0.2	-	-	< 0.20	< 0.50	< 0.50	44	< 4	6	< 0.005	-
17-Oct-06	< 20.0	-	-	< 0.20	< 0.50	< 0.50	30	< 4	8	< 0.005	-
18-Jan-07	< 20.0	-	-	0.47	< 0.50	< 0.50	24	< 4	5	< 0.005	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	< 0.2	-	-	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
28-Mar-08	< 20.0	-	-	0.28	< 0.50	< 0.50	< 20	< 4	5	< 0.005	-
30-Jun-09	< 2.0	-	-	< 0.20	< 0.50	< 0.50	32	< 4	6	< 0.005	-
14-Jul-09	< 2.0	-	-	0.26	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	-
06-Oct-09	< 0.2	0.8	< 0.01	< 0.20	< 0.50	< 0.50	< 20	< 4	4	< 0.005	< 0.01
03-Feb-10	< 2.0	0.5	< 0.01	0.70	< 0.50	< 0.50	< 20	< 4	< 3	< 0.005	< 0.01
19-Apr-11	< 0.8	-	-	0.08	< 0.50	< 0.50	< 20	< 4	4	< 0.005	-
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.2	1.4	< 0.01	< 0.05	< 0.02	0.29	19	< 2	4	< 0.010	< 0.01
31-Mar-15	< 0.2	-	-	0.16	< 0.02	0.33	15	< 2	3	< 0.010	-
17-May-16	< 0.2	-	-	< 0.05	< 0.02	< 0.20	< 10	< 2	3	< 0.010	-
17-Jul-17	< 0.2	1.1	-	0.31	< 0.02	< 0.20	24	< 2	3	< 0.010	< 0.01
12-Dec-18	< 1.0	-	-	< 1.00	0.08	0.37	16	< 2	5	< 0.005	-
19-Mar-20	< 1.0	-	-	< 1.00	< 0.05	0.21	6	< 2	4	< 0.005	-
21-Jun-21	< 1.0	0.5	< 0.01	< 1.00	< 0.05	0.23	< 5	< 2	3	< 0.005	< 0.01

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA										
	TOTAL METALS										
SURFACE WATER	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	-	-	-	-	1.0	1.5	-	273	-	16	0.3
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-
Surface Water SW-7											
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-
16-Feb-00	0.33	< 0.050	< 0.002	0.030	< 0.002	< 0.005	30.1	< 0.01	< 0.01	< 0.02	0.61
18-May-00	0.74	< 0.050	< 0.002	0.035	< 0.002	0.005	35.1	< 0.01	< 0.01	< 0.02	1.10
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	< 0.005	58.2	-	-	-	0.38
15-May-01	-	-	-	-	-	< 0.005	49.9	-	-	-	0.55
11-Feb-02	-	-	-	-	-	0.005	27.0	-	-	-	0.47
13-May-02	-	-	-	-	-	0.005	15.0	-	-	-	0.97
04-Nov-02	0.07	< 0.003	< 0.010	< 0.300	< 0.005	0.005	64.0	< 0.05	< 0.05	< 0.02	0.08
18-Feb-03	-	-	-	-	-	0.005	37.0	-	-	-	0.46
06-May-03	-	-	-	-	-	0.005	31.0	-	-	-	0.17
08-Aug-03	-	-	-	-	-	0.005	43.0	-	-	-	0.22
28-Oct-03	-	-	-	-	-	0.005	24.0	-	-	-	0.81
27-Jan-04	-	-	-	-	-	0.005	30.0	-	-	-	0.28
14-Apr-04	-	-	-	-	-	0.005	19.0	-	-	-	0.90
12-Jul-04	0.82	< 0.003	0.007	< 0.300	< 0.005	< 0.005	58.0	< 0.05	< 0.05	< 0.02	1.10
05-Oct-04	-	-	-	-	-	< 0.005	47.0	-	-	-	0.09
18-Jan-05	-	-	-	-	-	< 0.005	25.0	-	-	-	0.25
05-Apr-05	-	-	-	-	-	< 0.005	15.0	-	-	-	1.30
02-Aug-05	-	-	-	-	-	< 0.005	61.0	-	-	-	0.51
01-Nov-05	< 0.05	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	30.0	< 0.05	< 0.05	< 0.02	0.22
14-Feb-06	0.14	< 0.003	< 0.010	< 0.300	< 0.005	< 0.005	29.0	< 0.05	< 0.05	0.03	0.15
18-Apr-06	-	-	-	-	-	< 0.005	27.0	-	-	-	0.16
25-Jul-06	-	-	-	-	-	< 0.005	41.0	-	-	-	0.47
17-Oct-06	-	-	-	-	-	< 0.005	46.0	-	-	-	0.07
18-Jan-07	-	-	-	-	-	< 0.005	27.0	-	-	-	0.21
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	< 0.005	57.6	-	-	-	< 0.06
28-Mar-08	-	-	-	-	-	< 0.005	13.9	-	-	-	1.75
30-Jun-09	-	-	-	-	-	< 0.005	44.5	-	-	-	0.29
14-Jul-09	-	-	-	-	-	< 0.005	58.9	-	-	-	0.18
06-Oct-09	< 0.10	< 0.030	< 0.010	0.056	< 0.003	< 0.005	82.7	< 0.01	< 0.02	< 0.01	< 0.06
03-Feb-10	< 0.10	< 0.030	< 0.010	< 0.050	< 0.003	< 0.005	44.0	< 0.01	< 0.02	< 0.01	0.07
19-Apr-11	-	-	-	-	-	< 0.005	17.2	-	-	-	0.38
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-
12-Nov-13	< 0.20	< 0.010	< 0.010	< 0.200	< 0.004	< 0.005	56.1	< 0.01	< 0.05	< 0.03	< 0.10
31-Mar-15	-	-	-	-	-	< 0.002	21.3	-	-	-	0.18
17-May-16	-	-	-	-	-	< 0.002	37.3	-	-	-	0.35
17-Jul-17	0.43	< 0.020	< 0.015	0.051	< 0.002	< 0.002	62.9	< 0.004	< 0.004	< 0.01	0.34
12-Dec-18	-	-	-	-	-	< 0.005	38.9	-	-	-	0.22
19-Mar-20	-	-	-	-	-	< 0.005	27.7	-	-	-	0.40
21-Jun-21	0.71	< 0.060	< 0.010	0.054	< 0.003	< 0.005	61.6	< 0.01	< 0.05	< 0.02	0.69

	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA												
	TOTAL METALS												
SURFACE WATER	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Na (mg/l)	Se (ug/l)	Ag (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
6NYCRR Part 703 Class C Surface Water Standards	5	-	-	0.0002	123	-	-	0.001	0.0001	0.008	-	0.30	
TRIGGER VALUES	-	-	-	-	-	-	-	-	-	-	-	-	
Surface Water													
SW-7													
17-Aug-99	DRY	-	-	-	-	-	-	-	-	-	-	-	
11-Nov-99	DRY	-	-	-	-	-	-	-	-	-	-	-	
16-Feb-00	0.002	7	0.04	< 0.0002	< 0.01	1.56	31.7	< 0.002	< 0.01	< 0.001	< 0.10	< 0.02	
18-May-00	0.003	8	0.06	< 0.0002	< 0.01	1.94	14.5	< 0.002	< 0.01	< 0.001	< 0.10	0.02	
22-Aug-00	DRY	-	-	-	-	-	-	-	-	-	-	-	
13-Nov-00	0.009	14	0.03	-	-	2.70	31.2	-	-	-	-	-	
15-May-01	0.004	12	0.05	-	-	2.45	25.1	-	-	-	-	-	
11-Feb-02	0.002	6	-	-	< 0.03	-	-	-	< 0.50	-	-	-	
13-May-02	< 0.001	3	-	-	< 0.03	-	-	-	< 0.50	-	-	-	
04-Nov-02	< 0.001	14	< 0.02	< 0.0004	0.04	2.60	48.0	< 0.010	< 0.50	< 0.003	< 0.30	0.03	
18-Feb-03	0.002	9	-	-	0.04	-	-	-	< 0.50	-	-	-	
06-May-03	0.002	7	-	-	< 0.03	-	-	-	< 0.50	-	-	-	
08-Aug-03	< 0.001	9	-	-	0.06	-	-	-	< 0.50	-	-	-	
28-Oct-03	0.002	5	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
27-Jan-04	< 0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
14-Apr-04	0.001	5	-	-	0.03	-	-	-	-	-	-	-	
12-Jul-04	0.002	14	0.04	0.0000	0.05	3.30	46.0	< 0.005	< 0.05	< 0.003	< 0.30	0.05	
05-Oct-04	0.002	11	-	-	0.04	-	-	-	< 0.05	-	-	-	
18-Jan-05	< 0.001	6	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
05-Apr-05	0.001	4	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
02-Aug-05	0.001	13	-	-	0.03	-	-	-	< 0.05	-	-	-	
01-Nov-05	< 0.001	7	< 0.02	< 0.0004	< 0.03	1.20	22.0	< 0.005	< 0.05	< 0.003	< 0.30	< 0.01	
14-Feb-06	< 0.001	7	< 0.02	< 0.0004	< 0.03	1.60	17.0	< 0.005	< 0.05	0.004	< 0.30	< 0.01	
18-Apr-06	0.001	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
25-Jul-06	< 0.003	9	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
17-Oct-06	< 0.003	11	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
18-Jan-07	< 0.003	7	-	-	< 0.03	-	-	-	< 0.05	-	-	-	
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-	
10-Jul-07	DRY	-	-	-	-	-	-	-	-	-	-	-	
16-Oct-07	0.007	13	-	-	< 0.03	-	-	-	< 0.01	-	-	-	
28-Mar-08	0.003	4	0.04	-	< 0.03	1.24	7.6	-	-	-	-	-	
30-Jun-09	< 0.003	10	< 0.01	-	-	2.35	25.7	-	-	-	-	-	
14-Jul-09	< 0.003	14	< 0.01	-	-	2.52	31.5	-	-	-	-	-	
06-Oct-09	< 0.003	17	< 0.01	< 0.0002	< 0.03	< 5.00	68.5	< 0.005	< 0.01	< 0.010	< 0.30	< 0.01	
03-Feb-10	< 0.003	11	0.02	< 0.0002	< 0.03	< 5.00	27.8	< 0.005	< 0.01	< 0.010	< 0.30	0.02	
19-Apr-11	< 0.003	< 5	0.02	-	-	< 5.00	7.5	-	-	-	-	-	
31-Jul-12	DRY	-	-	-	-	-	-	-	-	-	-	-	
12-Nov-13	< 0.010	12	< 0.02	< 0.0002	< 0.04	< 5.00	27.9	< 0.010	< 0.01	< 0.020	< 0.05	< 0.02	
31-Mar-15	< 0.010	6	0.004	-	-	1.70	9.2	-	-	-	-	-	
17-May-16	< 0.010	10	0.019	-	-	1.70	14.2	-	-	-	-	-	
17-Jul-17	< 0.010	19	0.02	< 0.0002	< 0.01	2.50	20.4	< 0.025	< 0.01	< 0.020	< 0.01	< 0.01	
12-Dec-18	< 0.005	10	0.065	-	-	< 2.00	12.4	-	-	-	-	-	
19-Mar-20	< 0.005	7	0.015	-	-	< 2.00	10.3	-	-	-	-	-	
21-Jun-21	< 0.050	17	0.03	< 0.0002	< 0.04	2.58	16.5	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02	

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA

DISSOLVED METALS

[illegible]

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA	
DISSOLVED METALS	
SURFACE WATER	Pb (mg/l) Mg (mg/l) Mn (mg/l) Hg (mg/l) Ni (mg/l) K (mg/l) Na (mg/l) Se (mg/l) Ag (mg/l) Tl (mg/l) V (mg/l) Zn (mg/l)
6NYCRR Part 703 Class C Surface Water Standards	- - - - - - - - - - - -
TRIGGER VALUES	- - - - - - - - - - - -
Surface Water SW-7	
17-Aug-99	DRY - - - - - - - - - - - -
11-Nov-99	DRY - - - - - - - - - - - -
16-Feb-00	- - - - - - - - - - - -
18-May-00	- - - - - - - - - - - -
22-Aug-00	DRY - - - - - - - - - - - -
13-Nov-00	- - - - - - - - - - - -
15-May-01	- - - - - - - - - - - -
11-Feb-02	- - - - - - - - - - - -
13-May-02	- - - - - - - - - - - -
04-Nov-02	- - - - - - - - - - - -
18-Feb-03	- - - - - - - - - - - -
06-May-03	- - - - - - - - - - - -
08-Aug-03	- - - - - - - - - - - -
28-Oct-03	- - - - - - - - - - - -
27-Jan-04	- - - - - - - - - - - -
14-Apr-04	- - - - - - - - - - - -
12-Jul-04	- - - - - - - - - - - -
05-Oct-04	- - - - - - - - - - - -
18-Jan-05	- - - - - - - - - - - -
05-Apr-05	- - - - - - - - - - - -
02-Aug-05	- - - - - - - - - - - -
01-Nov-05	- - - - - - - - - - - -
14-Feb-06	- - - - - - - - - - - -
18-Apr-06	- - - - - - - - - - - -
25-Jul-06	- - - - - - - - - - - -
17-Oct-06	- - - - - - - - - - - -
18-Jan-07	- - - - - - - - - - - -
03-Apr-07	- - - - - - - - - - - -
10-Jul-07	DRY - - - - - - - - - - - -
16-Oct-07	- - - - - - - - - - - -
28-Mar-08	- - - - - - - - - - - -
30-Jun-09	- - - - - - - - - - - -
14-Jul-09	- - - - - - - - - - - -
06-Oct-09	- - - - - - - - - - - -
03-Feb-10	- - - - - - - - - - - -
19-Apr-11	- - - - - - - - - - - -
31-Jul-12	DRY - - - - - - - - - - - -
12-Nov-13	- - - - - - - - - - - -
31-Mar-15	- - - - - - - - - - - -
17-May-16	- - - - - - - - - - - -
17-Jul-17	- - - - - - - - - - - -
12-Dec-18	- - - - - - - - - - - -
19-Mar-20	- - - - - - - - - - - -
21-Jun-21	- - - - - - - - - - - -

STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA		
ORGANIC PARAMETERS (DETECTED)		
SURFACE WATER		SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 Class C Surface Water Standards		
TRIGGER VALUES		
Surface Water SW-7	ANALYSIS METHOD	
17-Aug-99	DRY	-
11-Nov-99	DRY	-
16-Feb-00	EPA 8260	0
18-May-00	EPA 8260	0
22-Aug-00	DRY	-
13-Nov-00	-	-
15-May-01	-	-
11-Feb-02	-	-
13-May-02	-	-
04-Nov-02	EPA 8260	0
18-Feb-03	-	-
06-May-03	-	-
08-Aug-03	-	-
28-Oct-03	-	-
27-Jan-04	-	-
14-Apr-04	-	-
12-Jul-04	EPA 8260	0
05-Oct-04	-	-
18-Jan-05	-	-
05-Apr-05	-	-
02-Aug-05	-	-
01-Nov-05	EPA 8260	0
14-Feb-06	EPA 8260	0
18-Apr-06	-	-
25-Jul-06	-	-
17-Oct-06	-	-
18-Jan-07	-	-
03-Apr-07	-	-
10-Jul-07	-	-
16-Oct-07	-	-
28-Mar-08	-	-
30-Jun-09	-	-
14-Jul-09	-	-
06-Oct-09	EPA 8260	0
03-Feb-10	EPA 8260	0
19-Apr-11	-	-
31-Jul-12	-	-
12-Nov-13	EPA 8260	0
31-Mar-15	-	-
17-May-16	-	-
17-Jul-17	EPA 8260	0
12-Dec-18	-	-
19-Mar-20	-	-
21-Jun-21	EPA 8260	0

		STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA									
		FIELD PARAMETERS					INORGANIC PARAMETERS				
LEACHATE	TEMP.	Eh	pH	SP.	TURB.	COLOR	ALK.	HARD.	TDS	Cl	SO4
	(deg. F)	(mV)	(Std Units)	COND. (uS/cm)			(mg/L CaCO3)	(mg/L CaCO3)			
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
11-Feb-99	42	79	8.2	1600	> 440	-	908	1094	2180	244	76
18-May-99	54	96	7.7	3000	> 440	-	1370	640	3550	207	15
17-Aug-99	68	125	7.5	2900	548	-	1280	705	2270	216	41
11-Nov-99	52	-100	6.7	6700	39	-	2840	1416	3626	616	U
15-Feb-00	37	-5	7.3	1000	78	-	430	274	1290	60	39
17-May-00	58	-21	7.6	2100	170	-	1050	570	2600	152	30
21-Aug-00	65	-150	7.5	2620	240	-	1310	701	4170	203	15
13-Nov-00	50	-56	7.9	2180	> 1100	-	938	796	3080	175	32
30-Jan-01	38	66	8.0	3010	15	-	1490	889	3830	244	10
15-May-01	53	61	7.7	2810	16	-	1290	751	2630	167	15
10-Sep-01	65	11	7.0	777	-	-	560	1900	1100	73	160
11-Dec-01	53	11	6.9	1516	46	-	1500	780	2900	280	< 5
12-Feb-02	48	30	6.4	1338	63	-	1200	670	1700	170	< 5
14-May-02	49	30	6.4	615	22	-	890	440	1100	110	< 5
13-Aug-02	58	2	6.8	1294	57	-	2300	1100	2700	430	6
05-Nov-02	52	6	7.5	2940	72	520	2300	940	1700	440	38
18-Feb-03	43	9	6.7	1491	23	-	1700	690	1900	270	< 5
06-May-03	50	23	6.6	1170	29	-	1300	670	1900	210	< 5
08-Aug-03	59	189	5.2	839	15	280	1100	610	1500	190	< 5
28-Oct-03	53	37	6.4	1243	37	-	1200	620	1600	200	5
27-Jan-04	44	25	6.6	1131	15	-	980	640	1300	170	< 5
13-Apr-04	49	44	6.4	992	45	-	990	530	1200	150	< 5
12-Jul-04	57	17	6.4	1110	35	60	1500	630	1840	235	< 5
05-Oct-04	54	28	6.5	891	14	-	630	460	1510	115	8
28-Jan-05	47	30	6.8	1079	19	-	1100	430	3100	123	< 5
05-Apr-05	51	47	6.7	813	17	-	700	340	708	79	< 5
02-Aug-05	58	59	6.5	1193	31	-	1500	570	2000	439	5
14-Feb-06	48	78	6.5	691	17	54	930	550	1200	145	< 5
18-Apr-06	51	60	6.5	598	24	-	820	550	1130	158	< 5
25-Jul-06	64	72	5.8	597	9	-	980	520	1220	142	< 5
17-Oct-06	52	47	6.5	565	20	-	1000	690	1380	184	< 5
18-Jan-07	45	60	6.5	594	7	-	710	540	798	105	< 5
03-Apr-07	51	74	6.3	643	13	10	270	490	2970	3	36
10-Jul-07	65	39	6.4	648	7	-	420	670	1060	200	6
16-Oct-07	56	39	6.1	633	22	-	1100	8190	1840	202	< 5
31-Mar-08	53	33	6.4	1189	10	-	680	468	750	62	< 50
22-Jul-08	59	18	6.4	2290	20	80	1200	823	1570	220	< 25
07-Oct-08	53	15	6.6	1672	31	-	1100	851	1550	190	< 10
30-Jan-09	47	15	6.3	1907	26	-	1000	706	1130	132	< 5
07-Apr-09	47	12	6.4	1253	18	-	660	544	818	106	< 5
14-Jul-09	57	11	6.6	1892	27	-	970	824	1300	183	< 5
06-Oct-09	55	9	6.7	1497	26	28	940	725	1100	147	20
03-Feb-10	44	-1	6.6	1318	32	90	870	711	1000	156	< 5
19-Apr-11	49	3	6.4	748	17	-	530	417	710	87	< 5
31-Jul-12	55	-26	7.5	185	36	-	53	207	200	29	31
12-Nov-13	9	-50	6.4	2100	4	350	1030	644	1070	164	4
31-Mar-15	62	-84	6.6	1490	23	-	647	477	766	5	< 2
17-May-16	54	-75	6.5	1750	7	-	890	627	956	115	< 33
17-Jul-17	70	24	6.8	1880	88	10	902	640	1010	150	< 10
12-Dec-18	50	63	6.4	1386	70	-	614	542	765	80	< 2
19-Mar-20	61	-28	6.6	1504	35	-	659	508	806	78	< 2
21-Jun-21	76	-64	6.7	1852	3	16	789	597	967	129	< 2

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

LEACHATE	INORGANIC PARAMETERS										
	Br (mg/L)	BORON (mg/L)	Cr+6 (mg/L)	NO3-N (mg/L)	NH3-N (mg/L)	TKN (mg/L)	COD (mg/L)	BOD-5 (mg/L)	TOC (mg/L)	TOTAL PHENOLS (mg/L)	TOTAL CYANIDE (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
11-Feb-99	-	-	-	-	0.48	-	3520	-	830	0.543	-
18-May-99	-	-	-	-	0.10	-	5790	-	1200	0.029	-
17-Aug-99	-	-	-	0.24	0.11	-	5770	-	400	0.326	-
11-Nov-99	U	104	-	U	164.00	192.00	1980	410	640	0.330	U
15-Feb-00	U	-	-	0.45	0.14	3.03	1460	25	360	0.056	-
17-May-00	U	114	U	U	U	2.73	3560	30	320	0.284	U
21-Aug-00	U	-	-	U	U	2.39	4760	13	300	0.509	-
13-Nov-00	U	-	-	0.15	0.22	14.70	3980	41	990	U	-
30-Jan-01	< 1.0	227	< 0.01	< 0.05	0.12	6.70	4270	13	1400	0.144	< 0.010
15-May-01	< 1.0	-	-	< 0.10	0.11	1.38	4480	12	980	0.173	-
10-Sep-01	< 0.2	-	-	0.30	57.00	78.00	2300	59	< 1	< 0.005	-
11-Dec-01	< 0.2	-	-	< 0.20	140.00	220.00	800	300	400	0.360	-
12-Feb-02	< 2.0	-	-	< 0.20	61.00	70.00	810	370	11	0.240	-
14-May-02	< 2.0	-	-	< 0.20	38.00	37.00	540	290	150	0.110	-
13-Aug-02	< 2.0	-	-	< 0.20	130.00	130.00	28	370	230	0.230	-
05-Nov-02	< 2.0	62	< 0.01	< 0.20	120.00	150.00	580	680	410	0.450	< 0.010
18-Feb-03	< 2.0	-	-	< 0.20	68.00	96.00	880	430	260	0.210	-
06-May-03	< 2.0	-	-	< 0.20	65.00	75.00	650	380	240	0.160	-
08-Aug-03	< 20.0	23	< 0.01	< 0.20	53.00	56.00	320	220	150	0.120	< 0.010
28-Oct-03	< 2.0	-	-	< 0.20	46.00	54.00	1000	430	210	-	-
27-Jan-04	< 2.0	-	-	< 0.20	51.00	39.00	400	110	87	0.076	-
13-Apr-04	< 2.0	-	-	< 0.20	33.70	39.00	520	260	150	0.155	-
12-Jul-04	< 0.2	25	< 0.01	< 0.20	59.40	68.30	690	< 4	16	0.148	< 0.010
05-Oct-04	< 0.2	-	-	< 0.20	49.30	52.80	677	96	75	0.105	-
28-Jan-05	< 2.0	-	-	< 0.20	50.40	36.20	314	< 4	62	0.110	-
05-Apr-05	< 20.0	-	-	< 0.20	26.00	25.30	85	162	70	0.033	-
02-Aug-05	< 2.0	-	-	< 0.20	29.60	56.30	< 500	60	150	0.311	-
14-Feb-06	< 20.0	20	< 0.01	< 0.20	45.40	3.46	175	84	41	0.064	< 0.010
18-Apr-06	< 20.0	-	-	< 0.20	14.70	36.20	244	58	46	0.054	-
25-Jul-06	< 20.0	-	-	0.21	44.00	32.90	189	78	59	0.126	-
17-Oct-06	< 20.0	-	-	< 0.21	32.60	51.30	41	65	70	0.052	-
18-Jan-07	< 20.0	-	-	0.24	17.30	23.70	1010	31	57	< 0.005	-
03-Apr-07	< 20.0	17	< 0.01	< 0.20	27.40	37.80	108	84	37	< 0.005	< 0.010
10-Jul-07	< 200.0	-	-	< 0.20	< 0.50	46.60	200	< 4	68	0.085	-
16-Oct-07	< 0.2	-	-	< 0.20	30.60	73.60	428	990	262	0.166	-
31-Mar-08	< 200.0	-	-	< 0.20	9.91	25.50	285	< 120	64	0.057	-
22-Jul-08	< 20.0	34	< 0.01	< 0.20	27.70	50.40	542	310	< 6	0.168	< 0.010
07-Oct-08	< 2.0	-	-	< 0.20	16.30	63.60	278	192	87	0.154	-
30-Jan-09	< 2.0	-	-	< 0.20	24.80	42.10	245	114	61	0.087	-
07-Apr-09	< 20.0	-	-	< 0.20	18.60	26.90	125	69	43	0.125	-
14-Jul-09	< 20.0	-	-	< 0.20	26.60	55.20	116	60	28	0.250	-
06-Oct-09	< 2.0	19	< 0.01	< 0.20	27.00	40.20	417	260	152	0.111	< 0.010
03-Feb-10	< 20.0	19	< 0.01	< 0.05	24.10	50.60	447	143	601	0.300	< 0.010
19-Apr-11	< 80.0	-	-	< 0.05	12.70	17.40	98	48	32	0.028	-
31-Jul-12	< 80.0	-	-	0.86	0.91	4.53	79	11	10	< 0.050	-
12-Nov-13	0.6	27	< 0.01	0.10	41.30	37.00	84	5	24	< 0.010	< 0.010
31-Mar-15	< 0.2	-	-	< 0.05	18.80	23.40	52	6	13	< 0.010	-
17-May-16	< 0.6	-	-	< 0.05	29.80	29.90	33	3	16	< 0.010	-
17-Jul-17	< 1.0	18	-	< 0.05	38.60	33.10	43	4	20	0.011	< 0.010
12-Dec-18	< 1.0	-	-	< 1.00	18.10	21.70	40	15	17	< 0.005	-
19-Mar-20	< 1.0	-	-	< 1.00	20.50	23.60	42	9	8	< 0.005	-
21-Jun-21	< 1.0	18	< 0.05	< 1.00	25.80	30.50	46	5	20	< 0.005	< 0.005

STEUBEN COUNTY LINDLEY SOUTH LANDFILL STEUBEN COUNTY											
TOTAL METALS											
LEACHATE	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
11-Feb-99	-	-	-	-	-	U	300	-	-	-	14
18-May-99	-	-	-	-	-	U	144	-	-	-	18
17-Aug-99	-	-	-	-	-	U	160	-	-	-	15
11-Nov-99	0.08	0.077	0.005	0.32	U	U	262	0.02	U	U	77
15-Feb-00	-	-	-	-	-	U	63	-	-	-	4
17-May-00	2.69	U	0.005	0.42	U	U	127	0.02	U	U	7
21-Aug-00	-	-	-	-	-	U	152	-	-	-	7
13-Nov-00	-	-	-	-	-	U	159	-	-	-	151
30-Jan-01	0.26	< 0.050	0.007	1.04	< 0.002	< 0.005	196	< 0.01	< 0.01	0.02	4
15-May-01	-	-	-	-	-	< 0.005	162	-	-	-	7
10-Sep-01	-	-	-	-	-	0.180	280	-	-	-	1300
11-Dec-01	-	-	-	-	-	< 0.005	170	-	-	-	58
12-Feb-02	-	-	-	-	-	0.006	160	-	-	-	54
14-May-02	-	-	-	-	-	0.006	110	-	-	-	34
13-Aug-02	-	-	-	-	-	0.020	230	-	-	-	180
05-Nov-02	0.40	< 0.003	0.044	< 0.30	< 0.005	0.010	210	< 0.15	0.15	0.02	67
18-Feb-03	-	-	-	-	-	0.009	170	-	-	-	120
06-May-03	-	-	-	-	-	0.006	150	-	-	-	49
08-Aug-03	0.29	< 0.003	< 0.010	< 0.30	< 0.005	0.006	150	< 0.05	0.09	< 0.02	40
28-Oct-03	-	-	-	-	-	< 0.005	160	-	-	-	65
27-Jan-04	-	-	-	-	-	< 0.005	160	-	-	-	43
13-Apr-04	-	-	-	-	-	< 0.005	130	-	-	-	34
12-Jul-04	0.21	< 0.003	0.019	< 0.30	< 0.005	< 0.005	150	< 0.05	0.38	< 0.02	38
05-Oct-04	-	-	-	-	-	0.009	110	-	-	-	27
28-Jan-05	-	-	-	-	-	< 0.005	110	-	-	-	20
05-Apr-05	-	-	-	-	-	< 0.005	86	-	-	-	27
02-Aug-05	-	-	-	-	-	< 0.005	140	-	-	-	30
14-Feb-06	0.11	< 0.003	< 0.010	< 0.30	< 0.005	< 0.005	130	< 0.05	< 0.05	< 0.02	26
18-Apr-06	-	-	-	-	-	< 0.005	140	-	-	-	37
25-Jul-06	-	-	-	-	-	< 0.005	130	-	-	-	55
17-Oct-06	-	-	-	-	-	< 0.005	170	-	-	-	37
18-Jan-07	-	-	-	-	-	< 0.005	140	-	-	-	20
03-Apr-07	0.08	< 0.003	< 0.010	< 0.30	< 0.005	< 0.005	120	< 0.05	< 0.05	< 0.02	28
10-Jul-07	-	-	-	-	-	0.006	160	-	-	-	36
16-Oct-07	-	-	-	-	-	0.005	209	-	-	-	64
31-Mar-08	-	-	-	-	-	0.005	126	-	-	-	30
22-Jul-08	484.00	< 0.015	< 0.010	0.25	< 0.003	< 0.020	206	0.01	< 0.02	< 0.01	63
07-Oct-08	-	-	-	-	-	0.005	217	-	-	-	99
30-Jan-09	-	-	-	-	-	0.007	184	-	-	-	61
07-Apr-09	-	-	-	-	-	0.012	144	-	-	-	47
14-Jul-09	-	-	-	-	-	0.012	197	-	-	-	46
06-Oct-09	0.16	< 0.030	< 0.010	0.32	< 0.003	< 0.005	194	< 0.01	< 0.02	< 0.01	51
03-Feb-10	11.20	< 0.030	< 0.010	0.45	< 0.003	< 0.005	186	0.03	0.09	0.22	304
19-Apr-11	-	-	-	-	-	< 0.005	114	-	-	-	19
31-Jul-12	-	-	-	-	-	0.033	71	-	-	-	2
12-Nov-13	< 0.20	< 0.010	< 0.010	0.26	< 0.004	< 0.005	159	< 0.01	< 0.05	< 0.03	26
31-Mar-15	-	-	-	-	-	< 0.002	123	-	-	-	12
17-May-16	-	-	-	-	-	< 0.002	164	-	-	-	16
17-Jul-17	< 0.20	< 0.020	< 0.015	0.35	< 0.002	< 0.002	165	< 0.004	< 0.004	< 0.01	14
12-Dec-18	-	-	-	-	-	< 0.005	148	-	-	-	11
19-Mar-20	-	-	-	-	-	< 0.005	133	-	-	-	9
21-Jun-21	< 0.10	< 0.060	< 0.010	0.28	< 0.003	< 0.005	157	< 0.01	< 0.05	< 0.02	16

LEACHATE	STEUBEN COUNTY LINDLEY SOUTH LANDFILL GROUNDWATER QUALITY DATA											
	TOTAL METALS											
	Pb (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Ni (mg/L)	K (mg/L)	Na (mg/L)	Se (ug/L)	Ag (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-	-
L-3												
11-Feb-99	0.005	84	7.65	-	-	17	270	-	-	-	-	-
18-May-99	0.046	68	1.51	-	-	18	427	-	-	-	-	-
17-Aug-99	0.012	74	1.46	-	-	23	444	-	-	-	-	-
11-Nov-99	0.038	185	5.28	U	0.09	162	528	U	U	-	U	0.75
15-Feb-00	0.003	28	0.34	-	-	6	115	-	-	-	-	-
17-May-00	0.006	62	0.92	U	0.02	15	315	U	U	U	0.04	U
21-Aug-00	0.003	78	1.31	-	-	20	442	-	-	-	-	-
13-Nov-00	0.078	97	3.55	-	-	37	382	-	-	-	-	-
30-Jan-01	0.003	97	1.21	< 0.0002	0.02	26	552	< 0.002	< 0.01	< 0.001	0.02	< 0.02
15-May-01	0.009	84	1.03	-	-	21	355	-	-	-	-	-
10-Sep-01	0.010	280	-	-	2.00	-	-	-	0.07	-	-	-
11-Dec-01	0.045	87	-	-	0.07	-	-	-	< 0.05	-	-	-
12-Feb-02	0.018	65	-	-	0.06	-	-	-	< 0.05	-	-	-
14-May-02	0.012	39	-	-	0.05	-	-	-	< 0.05	-	-	-
13-Aug-02	0.100	120	-	-	0.24	-	-	-	< 0.05	-	-	-
05-Nov-02	0.053	100	5.20	< 0.0004	0.15	67	280	< 0.005	< 0.05	< 0.003	< 0.30	0.48
18-Feb-03	0.096	66	-	-	0.07	-	-	-	< 0.05	-	-	-
06-May-03	0.017	69	-	-	0.07	-	-	-	0.08	-	-	-
08-Aug-03	0.013	57	4.10	< 0.0004	0.07	36	130	< 0.005	< 0.05	< 0.003	< 0.03	0.14
28-Oct-03	0.029	56	-	-	0.06	-	-	-	< 0.05	-	-	-
27-Jan-04	0.016	60	-	-	0.05	-	-	-	< 0.05	-	-	-
13-Apr-04	0.011	51	-	-	0.04	-	-	-	< 0.05	-	-	-
12-Jul-04	0.026	63	3.80	< 0.0004	0.09	31	120	0.021	< 0.05	< 0.003	< 0.30	0.20
05-Oct-04	0.024	43	-	-	0.08	-	-	-	< 0.05	-	-	-
28-Jan-05	0.015	41	-	-	< 0.03	-	-	-	< 0.05	-	-	-
05-Apr-05	0.005	31	-	-	< 0.03	-	-	-	< 0.05	-	-	-
02-Aug-05	0.011	55	-	-	0.06	-	-	-	< 0.05	-	-	-
14-Feb-06	0.009	52	3.90	< 0.0004	< 0.03	28	99	< 0.005	< 0.05	0.007	< 0.30	0.12
18-Apr-06	0.015	48	-	-	< 0.03	-	-	-	< 0.05	-	-	-
25-Jul-06	0.019	46	-	-	< 0.03	-	-	-	< 0.05	-	-	-
17-Oct-06	0.009	63	-	-	< 0.03	-	-	-	< 0.05	-	-	-
18-Jan-07	0.005	46	-	-	< 0.03	-	-	-	< 0.05	-	-	-
03-Apr-07	0.003	43	3.40	< 0.0004	< 0.03	32	94	< 0.005	< 0.05	< 0.003	< 0.30	0.03
10-Jul-07	< 0.003	62	-	-	< 0.03	-	-	-	< 0.05	-	-	-
16-Oct-07	0.010	72	-	-	< 0.03	-	-	-	< 0.01	-	-	-
31-Mar-08	< 0.003	37	-	-	-	22	65	-	-	-	-	-
22-Jul-08	0.011	75	5.16	< 0.0002	< 0.03	39	188	< 0.005	< 0.01	< 0.010	< 0.03	0.85
07-Oct-08	0.019	75	5.32	-	-	44	190	-	-	-	-	-
30-Jan-09	0.006	60	4.86	-	-	38	132	-	-	-	-	-
07-Apr-09	< 0.003	45	4.49	-	-	30	88	-	-	-	-	-
14-Jul-09	< 0.003	81	4.19	-	-	72	194	-	-	-	-	-
06-Oct-09	< 0.003	59	4.34	< 0.0002	< 0.03	46	132	< 0.005	< 0.01	< 0.010	< 0.03	0.14
03-Feb-10	< 0.003	60	6.06	< 0.0002	< 0.03	29	134	0.005	< 0.01	0.518	< 0.03	10.90
19-Apr-11	< 0.003	32	3.79	-	-	20	48	-	-	-	-	-
31-Jul-12	< 0.003	7	0.21	-	-	< 5	14	-	-	-	-	-
12-Nov-13	< 0.010	60	3.30	< 0.0002	< 0.04	34	135	< 0.010	< 0.01	< 0.020	< 0.05	0.10
31-Mar-15	< 0.010	41	2.90	-	-	20	79	-	-	-	-	-
17-May-16	< 0.010	53	3.90	-	-	28	100	-	-	-	-	-
17-Jul-17	< 0.010	55	3.70	< 0.0002	0.01	28	111	< 0.025	< 0.01	< 0.020	< 0.01	0.04
12-Dec-18	< 0.050	42	3.80	-	-	21	75	-	-	-	-	-
19-Mar-20	< 0.050	43	3.43	-	-	20	80	-	-	-	-	-
21-Jun-21	< 0.050	50	3.20	< 0.0002	< 0.04	27	99	< 0.010	< 0.01	< 0.010	< 0.05	< 0.02

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

DISSOLVED METALS

LEACHATE											
	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-
L-3											
11-Feb-99	-	-	-	-	-	-	-	-	-	-	-
18-May-99	-	-	-	-	-	-	-	-	-	-	-
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-
15-Feb-00	-	-	-	-	-	-	-	-	-	-	-
17-May-00	-	-	-	-	-	-	-	-	-	-	-
21-Aug-00	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-
30-Jan-01	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-
11-Dec-01	-	-	-	-	-	-	-	-	-	-	-
12-Feb-02	-	-	-	-	-	-	-	-	-	-	-
14-May-02	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-
05-Nov-02	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-
13-Apr-04	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-
28-Jan-05	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-
31-Mar-08	-	-	-	-	-	-	-	-	-	-	-
22-Jul-08	-	-	-	-	-	-	-	-	-	-	-
07-Oct-08	-	-	-	-	-	-	-	-	-	-	-
30-Jan-09	-	-	-	-	-	-	-	-	-	-	-
07-Apr-09	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-
17-May-16	-	-	-	-	-	-	-	-	-	-	-
17-Jul-17	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-
19-Mar-20	-	-	-	-	-	-	-	-	-	-	-
21-Jun-21	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

LEACHATE	DISSOLVED METALS											
	Pb (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Ni (mg/L)	K (mg/L)	Na (mg/L)	Se (mg/L)	Ag (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-	-
L-3												
11-Feb-99	-	-	-	-	-	-	-	-	-	-	-	-
18-May-99	-	-	-	-	-	-	-	-	-	-	-	-
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-
15-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-
17-May-00	-	-	-	-	-	-	-	-	-	-	-	-
21-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-
30-Jan-01	-	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-
11-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-
12-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-
14-May-02	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-
05-Nov-02	-	-	-	-	-	-	-	-	-	-	-	-
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	-	-	-	-	-	-	-	-	-	-	-	-
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-
13-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	-	-	-	-	-	-	-	-	-	-	-	-
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-
28-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	-	-	-	-	-	-	-	-	-	-	-	-
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-
22-Jul-08	-	-	-	-	-	-	-	-	-	-	-	-
07-Oct-08	-	-	-	-	-	-	-	-	-	-	-	-
30-Jan-09	-	-	-	-	-	-	-	-	-	-	-	-
07-Apr-09	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	-	-	-	-	-	-	-	-	-	-	-	-
03-Feb-10	-	-	-	-	-	-	-	-	-	-	-	-
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-
17-May-16	-	-	-	-	-	-	-	-	-	-	-	-
17-Jul-17	-	-	-	-	-	-	-	-	-	-	-	-
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-
19-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-
21-Jun-21	-	-	-	-	-	-	-	-	-	-	-	-

STEUBEN COUNTY
LINDLEY SOUTH LANDFILL
GROUNDWATER QUALITY DATA

	ORGANIC PARAMETERS (DETECTED)													
LEACHATE	1,4-Dichloro-benzene (ug/L)		2-Butanone (ug/L)	Acetone (ug/L)	Benzene (ug/L)	Chloro-Benzene (ug/L)	Chloro-ethane (ug/L)	Ethyl-benzene (ug/L)	m,p-Xylene (ug/L)	Toluene (ug/L)	1,2-Dichloro-benzene (ug/L)	MTBE (ug/L)	o-Xylenes (ug/L)	SUM OF ORGANIC COMPOUNDS (DETECTED)
6NYCRR Part 703 GROUNDWATER STANDARD	-	-	-	-	-	-	-	-	-	-	-	-	-	
L-3	ANALYSIS METHOD													
11-Feb-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-May-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-Aug-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-Nov-99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-Feb-00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-May-00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21-Aug-00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30-Jan-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-May-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-Sep-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-Dec-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-Feb-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14-May-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Aug-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05-Nov-02	8260	< 300	< 1000	< 1000	< 300	-	-	< 300	< 300	< 300	-	-	-	0
18-Feb-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06-May-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-Aug-03	8260	< 150	< 500	< 500	< 150	-	-	< 150	< 150	< 150	-	-	-	0
28-Oct-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Jan-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Apr-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-Jul-04	8260	< 3	< 10	< 10	< 3	-	-	< 3	< 3	< 3	-	-	-	0
05-Oct-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28-Jan-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05-Apr-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02-Aug-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14-Feb-06	8260	< 150	< 500	< 500	< 150	-	-	< 150	< 150	< 150	-	-	-	0
18-Apr-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-Jul-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-Oct-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-Jan-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03-Apr-07	8260	5	110	58	5	-	-	7	10	70	-	-	-	265
10-Jul-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31-Mar-08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-Jul-08	8260	< 500	< 1000	< 1000	< 500	-	-	< 500	< 500	300	-	-	-	300
07-Oct-08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30-Jan-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-Apr-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14-Jul-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06-Oct-09	8260	< 100	330	< 200	< 100	-	-	< 100	< 100	< 100	-	-	-	330
03-Feb-10	8260	< 500	< 1000	< 1000	< 500	-	-	< 500	< 500	200 J	-	-	-	200
19-Apr-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31-Jul-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-13	8260	4.4	< 10	< 10	2.3	2.0	1.2	1.6	5.3	9.1	-	-	-	25.9
31-Mar-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-May-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-Jul-17	8260	3.8	< 10	< 1	< 1	1.1	3.2	< 1	< 2	< 1	-	-	-	8.1
12-Dec-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19-Mar-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21-Jun-21	8260	3	< 5	< 5	< 1	0.70 J	< 1.0	< 1	1.2 J	< 1	0.21 J	0.39 J	0.44 J	5.9

Appendix D

**STEBEN COUNTY, LINDLEY SOUTH LANDFILL
GROUNDWATER ELEVATION DATA**

Page 1 of 1

MONITORING UNIT	OVERBURDEN UNIT MONITORING WELLS													
MONITORING LOCATION	MW-1		MW-2S		MW-3		MW-4		GW-1		GW-4		MW-2D (BEDROCK)	
TOP OF PVC PIPE ELEVATION	1463.97		1460.37		1486.59		1515.01		1544.44		1482.67		1460.08	
DATE	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation
10/5/2004	6.30	1457.67	4.62	1455.75	5.97	1480.62	4.61	1510.40	3.82	1540.62	3.82	1478.85	35.08	1425.00
1/18/2005	4.01	1459.96	3.03	1457.34	7.31	1479.28	6.01	1509.00	10.28	1534.16	14.32	1468.35	34.11	1425.97
4/5/2005	3.70	1460.27	2.81	1457.56	7.16	1479.43	5.11	1509.90	9.88	1534.56	15.34	1467.33	33.42	1426.66
8/2/2005	10.18	1453.79	1.58	1458.79	7.35	1479.24	8.61	1506.40	12.68	1531.76	16.52	1466.15	36.16	1423.92
11/1/2005	5.80	1458.17	1.93	1458.44	7.41	1479.18	6.44	1508.57	12.17	1532.27	15.75	1466.92	36.38	1423.70
2/14/2006	5.83	1458.14	3.88	1456.49	7.37	1479.22	7.08	1507.93	10.50	1533.94	15.89	1466.78	34.78	1425.30
4/18/2006	4.39	1459.58	3.10	1457.27	7.31	1479.28	6.01	1509.00	11.11	1533.33	16.96	1465.71	35.13	1424.95
7/24/2006	5.29	1458.68	0.87	1459.50	6.82	1479.77	5.52	1509.49	10.94	1533.50	16.51	1466.16	34.96	1425.12
10/17/2006	8.19	1455.78	2.13	1458.24	7.49	1479.10	7.69	1507.32	11.61	1532.83	12.48	1470.19	35.25	1424.83
1/18/2007	3.69	1460.28	2.15	1458.22	7.08	1479.51	5.15	1509.86	10.03	1534.41	14.98	1467.69	34.66	1425.42
4/3/2007	4.53	1459.44	3.69	1456.68	7.50	1479.09	5.67	1509.34	11.85	1532.59	16.38	1466.29	34.52	1425.56
7/10/2007	10.36	1453.61	2.26	1458.11	7.15	1479.44	8.60	1506.41	12.55	1531.89	17.05	1465.62	35.36	1424.72
10/15/2007	10.18	1453.79	2.49	1457.88	7.34	1479.25	8.19	1506.82	14.33	1530.11	16.44	1466.23	37.04	1423.04
3/27/2008	4.09	1459.88	3.77	1456.60	7.51	1479.08	6.06	1508.95	10.20	1534.24	17.00	1465.67	35.38	1424.70
6/30/2009	5.39	1458.58	1.93	1458.44	7.20	1479.39	6.97	1508.04	10.66	1533.78	17.27	1465.40	36.11	1423.97
7/14/2009	8.06	1455.91	2.37	1458.00	7.17	1479.42	7.61	1507.40	15.98	1528.46	17.24	1465.43	36.20	1423.88
10/6/2009	7.11	1456.86	1.60	1458.77	7.19	1479.40	6.98	1508.03	12.19	1532.25	15.63	1467.04	36.65	1423.43
1/26/2010	4.97	1459.00	3.12	1457.25	7.37	1479.22	5.82	1509.19	10.86	1533.58	15.30	1467.37	36.16	1423.92
4/18/2011	4.68	1459.29	3.58	1456.79	7.55	1479.04	3.84	1511.17	9.27	1535.17	16.83	1465.84	35.39	1424.69
7/30/2012	10.72	1453.25	6.78	1453.59	--	--	7.93	1507.08	17.00	1527.44	18.85	1463.82	41.33	1418.75
11/12/2013	7.64	1456.33	1.94	1458.43	7.04	1479.55	6.25	1508.76	13.11	1531.33	16.25	1466.42	37.68	1422.40
3/30/2015	5.52	1458.45	3.62	1456.75	7.45	1479.14	5.64	1509.37	11.62	1532.82	18.49	1464.18	Frozen	--
5/17/2016	6.65	1457.32	4.03	1456.34	8.00	1478.59	7.44	1507.57	11.04	1533.40	16.31	1466.36	36.47	1423.61
7/17/2017	9.82	1454.15	2.90	1457.47	8.07	1478.52	7.53	1507.48	11.66	1532.78	16.25	1466.42	37.22	1422.86
12/11/2018	4.98	1458.99	3.21	1457.16	7.87	1478.72	6.73	1508.28	10.86	1533.58	13.23	1469.44	34.46	1425.62
3/14/2020	4.82	1459.15	4.04	1456.33	7.89	1478.70	6.39	1508.62	10.95	1533.49	14.58	1468.09	34.57	1425.51
6/21/2021	8.48	1455.49	4.11	1456.26	8.14	1478.45	8.14	1506.87	11.34	1533.10	17.15	1465.52	38.94	1421.14

Appendix E

CATION / ANION DISTRIBUTION

Sample Date: June-21

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **MW-1**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	59	0.04990	2.94410	Cl	9	0.02820	0.25380
Mg *	18	0.08229	1.48122	SO4	10	0.02082	0.20820
Na *	7	0.04350	0.28275	HCO3 **	242	0.01639	3.96335
K *	2	0.02558	0.06318	CO3 **	0	0.03333	0.01582
* Total metals Turbidity = 4 NTUs TDS = 233 mg/l CaCO3				** Conversion from: Alkalinity = 199 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>4.77125</u>				Total Anion Equivalents = <u>4.44117</u>			

Relative Percent Difference = 7.17% excess cations

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **MW-2S**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	142	0.04990	7.08580	Cl	103	0.02820	2.90460
Mg *	46	0.08229	3.78534	SO4	34	0.02082	0.70788
Na *	75	0.04350	3.27555	HCO3 **	703	0.01639	11.52602
K *	2	0.02558	0.06139	CO3 **	0	0.03333	0.01155
* Total metals Turbidity = 2 NTUs TDS = 791 mg/l CaCO3				** Conversion from: Alkalinity = 577 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>14.20808</u>				Total Anion Equivalents = <u>15.15006</u>			

Relative Percent Difference = -6.42% excess anions

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **MW-3**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	165	0.04990	8.23350	Cl	153	0.02820	4.31460
Mg *	79	0.08229	6.50091	SO4	13	0.02082	0.27066
Na *	31	0.04350	1.36155	HCO3 **	742	0.01639	12.16775
K *	4	0.02558	0.10053	CO3 **	0	0.03333	0.00969
* Total metals Turbidity = 33 NTUs TDS = 818 mg/l CaCO3				** Conversion from: Alkalinity = 609 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>16.19649</u>				Total Anion Equivalents = <u>16.76270</u>			

Relative Percent Difference = -3.44% excess anions

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **MW-4**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	99	0.04990	4.94010	Cl	2	0.02820	0.05640
Mg *	15	0.08229	1.23435	SO4	7	0.02082	0.14574
Na *	4	0.04350	0.16095	HCO3 **	379	0.01639	6.21557
K *	2	0.02558	0.05116	CO3 **	0	0.03333	0.00312
* Total metals Turbidity = 2 NTUs TDS = 333 mg/l CaCO3				** Conversion from: Alkalinity = 311 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>6.38656</u>				Total Anion Equivalents = <u>6.42083</u>			

Relative Percent Difference = -0.54% excess anions

CATION / ANION DISTRIBUTION

Sample Date: June-21

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **GW-1**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	64	0.04990	3.19360	Cl	2	0.02820	0.05640
Mg *	18	0.08229	1.48122	SO4	13	0.02082	0.27066
Na *	14	0.04350	0.59160	HCO3 **	314	0.01639	5.13841
K *	2	0.02558	0.05116	CO3 **	1	0.03333	0.02051
* Total metals Turbidity = 1 NTUs TDS = 287 mg/l CaCO3				** Conversion from: Alkalinity = 258 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>5.31758</u>				Total Anion Equivalents = <u>5.48598</u>			

Relative Percent Difference = -3.12% excess anions

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **GW-4**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	330	0.04990	16.46700	Cl	5	0.02820	0.14100
Mg *	100	0.08229	8.22900	SO4	1070	0.02082	22.27740
Na *	105	0.04350	4.56750	HCO3 **	407	0.01639	6.66527
K *	4	0.02558	0.10309	CO3 **	0	0.03333	0.01333
* Total metals Turbidity = 11 NTUs TDS = 1880 mg/l CaCO3				** Conversion from: Alkalinity = 334 mg/l CaCO3 @ pH = 7 Standard Units			
Total Cation Equivalents = <u>29.36659</u>				Total Anion Equivalents = <u>29.09700</u>			

Relative Percent Difference = 0.92% excess cations

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **MW-2D**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *	96	0.04990	4.79040	Cl	17	0.02820	0.47940
Mg *	33	0.08229	2.71557	SO4	171	0.02082	3.56022
Na *	75	0.04350	3.24510	HCO3 **	427	0.01639	6.99635
K *	3	0.02558	0.06600	CO3 **	1	0.03333	0.02218
* Total metals Turbidity = 5 NTUs TDS = 615 mg/l CaCO3				** Conversion from: Alkalinity = 351 mg/l CaCO3 @ pH = 8 Standard Units			
Total Cation Equivalents = <u>10.81707</u>				Total Anion Equivalents = <u>11.05815</u>			

Relative Percent Difference = -2.20% excess anions

Site ID: Lindley South Landfill, Steuben County

 Sample ID: **--**

CATION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)	ANION	CONC. (mg/l)	CONV. FACTOR	EQUIV. (mEq/l)
Ca *		0.04990	0.00000	Cl		0.02820	0.00000
Mg *		0.08229	0.00000	SO4		0.02082	0.00000
Na *		0.04350	0.00000	HCO3 **	0	0.01639	0.00000
K *		0.02558	0.00000	CO3 **	0	0.03333	0.00000
* Total metals Turbidity = NTUs TDS = mg/l CaCO3				** Conversion from: Alkalinity = mg/l CaCO3 @ pH = Standard Units			
Total Cation Equivalents = <u>0.00000</u>				Total Anion Equivalents = <u>0.00000</u>			

Relative Percent Difference = -- --

Appendix F

Periodic Review Report

Lindley South Landfill

Site No. 8-51-008

Steuben County, New York

Prepared for

Steuben County Department of Public Works

3 East Pulteney Square
Bath, New York 14810

January 1, 2021- December 31, 2021 Reporting Period

Barton & Loguidice

Lindley South Landfill
Site No. 8-51-008

Periodic Review Report

January 01, 2021- December 31, 2021 Reporting Period

Prepared for
Steuben County Department of Public Works
3 East Pulteney Square
Bath, New York 14810

Prepared by
Barton & Loguidice, P.L.L.C.
443 Electronics Parkway
Liverpool, New York 13088



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1.0 INTRODUCTION

1.1 Site Description/Summary

The Lindley South Landfill is located south of Gibson Road in the Town of Lindley, New York. The Lindley South Landfill is approximately 16 acres in size, with dimensions of approximately 420 feet wide (north-south) and approximately 1,720 feet long (east-west). Directly across Gibson Road from the site is the Lindley North Landfill, which was closed in 1987. A tributary to Glendening Creek flows adjacent to Gibson Road. The landfill is located along the lower portion of a long sloping hillside, with surface water and groundwater generally draining to the northeast. The area around the site is generally rural and consists of farmland and forests. The nearest residence is approximately one eighth of a mile west of the site.

1.2 Site Chronology

The landfill accepted both industrial and municipal solid wastes from 1977 through 1983, when capacity was reached. The Lindley South landfill is unlined and originally did not have any leachate collection systems in place. Historical reports indicate the Lindley South Landfill accepted waste from 11 towns during operation. Additionally, the landfill accepted industrial waste from Corning Glass Works. In 1983, the maximum waste capacity was reached and the landfill ceased to accept waste and was eventually capped with a two foot soil cap.

During the site's operating period, leachate problems were evident and leachate was observed flowing to an adjacent stream which serves as a tributary to Glendening Creek. Beginning in 1978, efforts were undertaken to limit groundwater flow onto the site. In 1984 a study was initiated by Steuben County to identify methods of leachate control at the site. In 1986 a leachate collection system was installed to control leachate outbreaks from the landfill. This system consisted of the installation of a leachate collection trench within the waste mass, along with a 5,000 gallon leachate storage tank. Two pre-existing groundwater interceptor drains outside the limits of the waste were also connected to the collection system and tank.

In 1988 and 1989 additional groundwater and leachate studies were performed. These studies concluded that groundwater flowing across the site comes into contact with landfill waste and leachate was being produced. In 1989, Steuben County installed additional groundwater diversion systems around the south and west sides of the site in order to reduce leachate generation.

In 1989 and 1990 Phase I and Phase II investigations were performed at the site on behalf of the NYSDEC. The Phase II investigation identified impacts to groundwater and nearby surface water from the site. The DEC designated the landfill an inactive hazardous waste site citing landfill acceptance of industrial waste from Corning Glass Works. The waste was known to contain lead fines and other hazardous materials.

In February 1998 DEC issued a Record of Decision (ROD) for the site. The ROD identified six major remedial components, which include;

- Continued removal and off-site treatment of leachate using existing leachate collection and storage systems,
- Design and construction of a low permeability cover system meeting 6 NYCRR Part 360 requirements to significantly reduce infiltration into the wastes,
- A long term operation and maintenance plan for the cover system,
- A long term monitoring plan which will allow the effectiveness of the remedy to be monitored,
- A contingency for the future design and construction of additional groundwater controls, if the cover system alone does not reduce leachate generation rates to manageable levels,
- Deed restrictions will be pursued to prevent future uses of the site which are incompatible with the selected remedy.

In 1998 the Lindley South Landfill was officially closed and was constructed with a capping system consisting of the following components:

- 6-inch topsoil layer with established vegetation;
- 24-inch clay barrier protection layer;
- Geocomposite drainage layer;
- Geomembrane 40-mil textured geosynthetic liner barrier layer; and
- Nonwoven geotextile fabric.

Other cap substructures consist of:

- Granular gas venting trenches; and
- Existing intermediate cover.

1.3 Effectiveness of the Remedial Program/Evaluation of Remedy, Performance, Effectiveness, and Protectiveness

The implementation of the selected remedy has successfully mitigated potential risk and the remedial system continues to operate effectively to protect the public.

- The installation of leachate collection system allows generated leachate to be collected within the landfill footprint, stored on site and ultimately removed and treated off-site.
- The landfill cap system prevents direct contact with waste materials and minimizes infiltration of precipitation, thus reducing the rate of leachate generation.

- The landfill property has a deed restriction restricting land and groundwater use at the site. The deed restrictions were filed on May 3, 2013 with the Steuben County Clerk's office.
- Periodic monitoring indicates that the remedy has reduced the concentrations of indicator and volatile organic constituents in groundwater.

The results of the groundwater monitoring described in Section 3.3 below demonstrate substantial progress towards the remedial objective of restoration of groundwater quality through natural attenuation. With ongoing maintenance of the integrity of the landfill cap system, continued improvement in water quality is expected to occur over time.

1.4 Compliance

Significant deficiencies were not noted in the integrity or performance of the engineering controls in the 2021 inspection reports (attached) and changes or corrective measures are not required. Trees from the neighboring parcels are observed to have fallen onto the perimeter fence, which is an ongoing occurrence at the Site. The County addresses the trees currently leaning on the Site perimeter fence in December 2021.

1.5 Recommendations

Changes to the Post-Closure Monitoring and Maintenance Operations Manual (MMO) (C&S Engineers, Inc., October, 1997 (Revised April, 1999)) are not required as a result of this Periodic Review.

Improvements in water quality have occurred at the site as a result of site remediation. The ongoing annual monitoring and reporting that occurs each year successfully examines water quality trends at the site over time. It is recommended that the next Periodic Review Report be completed in conjunction with completion of the 2022 monitoring period with a reporting deadline of March 10, 2023. Post-closure monitoring and reporting of groundwater will continue for a required 30-year period since official closure of the landfill. Based on the official closure date of 1998, the 30-year period would be until 2029. At that point, termination of post-closure monitoring and reporting will be assessed.

2.0 IC/EC PLAN COMPLIANCE REPORT

The site groundwater use restrictions and land use restrictions are the institutional controls specified in the Record of Decision for the Lindley South Landfill site. Engineering controls include a landfill cap and leachate collection systems. Institutional and Engineering Control (IC/EC) implemented at this site are discussed below.

2.1 IC/EC Requirements and Compliance

- The landfill cap system was installed to prevent direct contact with waste materials and minimize infiltration of precipitation, thus reducing the rate of leachate generation. The integrity of the cap is evaluated through quarterly visual inspections performed by the County (see Appendix A). Performance of this control is assessed through review of the ongoing monitoring data and leachate collection data. The results of the visual inspection and water quality monitoring are reported as part of the ongoing annual monitoring program for the site.
- The leachate collection system was installed to allow collection of generated leachate. Leachate is hauled away from the site and treated at the Steuben County Wastewater Treatment plant located in Bath, New York. Performance of this control is evaluated through leachate hauling records, which include weekly level measurements and volumes removed. Included in Appendix B is a listing of historical leachate generation data.

Significant deficiencies were not noted in the integrity or performance of the engineering controls in the most recent annual inspection (see Appendix A) and changes or corrective measures are not required.

2.2 IC/EC Certification

The IC/EC Certification form is provided in Appendix C.

3.0 POST CLOSURE MONITORING, MAINTENANCE & CONTINGENCY PLAN COMPLIANCE REPORT

Site operations, maintenance, and monitoring are conducted in accordance with the MMO. The MMO includes the Environmental Monitoring Program and the Site Maintenance Program and describes the record-keeping requirements applicable to the site. The MMO calls for periodic inspection of site access roads, the perimeter fence and associated gates, the landfill cover and gas venting systems, and the groundwater and surface water management network. In addition, the plan summarizes maintenance activities that are to be implemented in the event that damage to these systems is detected during the required inspections.

The MMO also describes the environmental monitoring program that has been established for the site, including the required monitoring locations, the parameters to be analyzed, sample collection methods, equipment cleaning and decontamination methods, and procedures to maintain sample quality and control. The components of the environmental monitoring program as they currently exist are summarized below.

3.1 Monitoring Plan Components

The current monitoring plan includes the following components:

- Annual (every 15 months) groundwater quality monitoring in the Site overburden unit (MW-1, MW-2S, MW-3, MW-4, GW-1, and GW-2).
- Annual (every 15 months) groundwater quality monitoring in the bedrock unit (MW-2D).
- Annual (every 15 months) surface water quality monitoring of four designated locations (SW-1, SW-2, SW-4 and SW-7).
- Annual (every 15 months) leachate quality monitoring of the one designated primary leachate storage tank (L-3).
- Quarterly visual inspection of the perimeter fencing system, site drainage network, and landfill cap integrity.
- Quarterly gas monitoring of 10 perimeter permanent gas monitoring points.
- The results of the monitoring are reported annually to NYSDEC.

3.2 Summary of Monitoring Completed During Reporting Period

Post-closure environmental monitoring and reporting at the Lindley South Landfill has occurred throughout the period from 1999 through the present. Monitoring occurred on a quarterly basis during the period from August 1999 through October 2009; and on an every 15 month basis from January 2010 to the present. The County received verbal DEC approval to not conduct quarterly monitoring during the Second, Third and Fourth Quarters of 2008 and also the First Quarter of 2009. The most current monitoring event at the site occurred in March 2020. The next scheduled monitoring event will occur in July 2022 (Third Quarter).

3.3 Comparisons with Remedial Objectives

The results of the groundwater monitoring demonstrate progress towards the remedial objective of restoration of groundwater quality through natural attenuation, as described below:

3.3.1 Groundwater Quality Trends

Groundwater quality trends in overburden groundwater are described below.

3.3.2 Overburden Groundwater

Listed below is a trend analysis for key leachate indicator parameters. The table includes a “trend” analysis of each parameter over time to see if it has increased, decreased or demonstrated no trend over time. Specifically, trend labels are relative to groundwater quality since 2006. Pre 2006 data showed significant improvements in groundwater quality. Trend determinations have been deciphered by examining both the historical groundwater quality data included in Appendix C of the Lindley South Landfill 2020 Environmental Monitoring Annual Report and the Overburden Unit trend graphs included as Figure 1.

Overburden Unit						
Parameter	GW-1	GW-4	MW-1	MW-2S	MW-3	MW-4
Alkalinity	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Total Hardness	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Total Dissolved Solids	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Chloride	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Ammonia	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
COD	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Iron	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Manganese	No Trend	No Trend	No Trend	No Trend	Decreasing	No Trend

A review of historical groundwater quality data was conducted to examine the consistency with the reported exceedances. The majority of the groundwater quality data obtained from closure to present has remained generally consistent since 2006. A slight impact from the landfill has been observed at monitoring locations MW-2S, MW-3, and GW-4; however, these locations continue to demonstrate consistent groundwater quality over time. Groundwater quality in monitoring location MW-3 fluctuates and alkalinity, chloride, hardness, manganese and iron concentrations increased slightly from 2012 to 2017, but have now declined and concentrations appear stable or decreasing.

3.3.3 Bedrock Groundwater

There is only one Bedrock Unit monitoring well (MW-2D) at the landfill, which is located on the northeast corner of the site. The well represents site downgradient bedrock groundwater quality and is installed ninety-five (95) feet deep. Listed below is a trend analyses table for key leachate indicator parameters. The table includes a “trend” analysis of each parameter over time to see if it has increased, decreased or demonstrated no trend over time. Trend determinations have been deciphered by examining both the historical groundwater quality data included in Appendix C of the Lindley South Landfill 2021 Environmental Monitoring Annual Report and the Bedrock Unit trend analysis included as Figure 2.

With no upgradient Bedrock Unit monitoring location we are unable to compare the groundwater quality within MW-2D to naturally occurring water quality within the Bedrock Unit at the landfill. This makes it difficult to determine if specific groundwater standard exceedance is a naturally occurring phenomenon or potentially a landfill influence indicator. There are several potentially anomalous data in the MW-2D water quality history, but the data set demonstrates consistency of each parameter over time since landfill closure.

Exceeded Parameter Trend Review MW-2D	
Parameter	Trends
Alkalinity	No Trend
Total Hardness	No Trend
Total Dissolved Solids	No Trend
Chloride	No Trend
Ammonia	No Trend
COD	No Trend
Iron	No Trend
Manganese	No Trend

3.4 Monitoring Deficiencies

No monitoring deficiencies were observed during the 2021 annual environmental monitoring event.

3.5 Summary of O&M Completed During Reporting Period

The most recent O&M activities at the site occurred in conjunction with the 2021 monitoring event, which included collection and analysis of groundwater samples for baseline analyses, as well as inspection of the engineering controls and site infrastructure as identified in the MMO.

Several trees had fallen onto the perimeter fence and were removed by the County in December of 2021.

3.6 Evaluation of Remedial Systems

The remedial system continues to operate effectively to protect the public health and environment. A list of remedial systems is included in Section 1.3 of this report.

3.7 O&M Deficiencies

Trees from the neighboring parcels are observed to have fallen onto the perimeter fence, which is an ongoing occurrence at the Site. The County removed these trees in December of 2021.

3.8 Conclusions and Recommendations

The closed facility is well maintained and operates in accordance with Site Post Closure Monitoring and Maintenance Plan. As noted previously, the results of the groundwater quality demonstrate consistency with some progress towards the remedial objective of restoration of groundwater quality through natural attenuation.

4.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

4.1 Compliance with SMP

No deficiencies were noted in the integrity or performance of the engineering controls in the most recent annual inspection and report (attached) and changes or corrective measures are not required. Changes to the SMP are not required as a result of this Periodic Review.

4.2 Performance and Effectiveness of the Remedy

The remedy is performing properly and as designed. A list of remedial systems in place is included in Section 1.3 of this report.

The results of the groundwater monitoring demonstrate progress towards the remedial objective of restoration of groundwater quality through natural attenuation. With ongoing maintenance of the integrity of the landfill cap system, continued improvement in water quality is expected to occur over time.

4.3 Future PRR Submittals

Given the improvement in groundwater quality that has occurred at the site as a result of site remediation and the ongoing annual reporting, it is recommended that the next Periodic Review Report be completed before March 10, 2023 for the 2022 reporting period. While the Engineering Controls put in place at the site have remained effective, the requirements for discontinuing site management have not yet been met.

Appendix A

1/27/25
JL

ENTRANCE AND PERIMETER				
Entrance Driveway & Service Road Conditions	<u>100%</u>	fair	poor	
Culverts	<u>100%</u>	fair	poor	
Trespass Sign Conditions	<u>100%</u>	fair	poor	
Fence/Gate Conditions	<u>100%</u>	fair	poor	locked
Drainage Channels	<u>100%</u>	sediment	plugged	
Perimeter Drains	<u>100%</u>	sediment	plugged	
Evidence of Trespass	yes	<u>no</u>		
Evidence of Vehicle Use	yes	<u>no</u>		
Other				

LANDFILL CAP AREA			
Unauthorized Materials Present	yes	na	where
Uncovered Areas	yes	na	where
Vegetative Cover Conditions	~~yes~~	fair	is poor
Evidence of Vectors	yes	na	where
Evidence of Erosion	yes	na	where
Evidence of Ponded Water	yes	na	where
Evidence of Leachate Seepage	yes	na	where
Other			

MONITORING LOCATIONS			
Gas Vents	secure ✓	damaged	
Monitoring Wells/Piezometer	secure	damaged	
Surface Water Monitoring Locations	flowing ✓	blocked	
Other			

[illegible][illegible]

South

Perimeter Gas Monitoring at Lindley ~~South~~ Landfill

Date:	2/16/21
Tester:	RB

Instrument: GEM 2000
Calibrated by: RB
date:

Weather: CLEAR

CLOUDY

RAIN

SNOW

Temperature:	20
Pressure:	21.5

Wellpoint	CH ₄ %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0



Landfill Inspection Report

Location: Lindale LF
 Client: Steuers County
 Job Number: 208-027-021
 Inspector(s): BJM / TJB
 Date / Time: 6/22/21
 Weather / Temp: cloudy 55°F wind

Site Security

Item	YES	NO	N/A	Comments
Is the gate to the landfill closed?	☒	☐	☐	
Is the gate locked and secure?	☒	☐	☐	
Is the perimeter fencing (if any) in good condition?	☒	☐	☐	<u>Fence or fence out should spring back</u>

Monitoring Wells

Item	YES	NO	N/A	Comments
Are the wells flagged, identified, and painted?	☒	☐	☐	
Are all of the wells locked?	☒	☐	☐	
Are the wells in good condition?	☒	☐	☐	

Gas Vents / Flares

Item	YES	NO	N/A	Comments
Are the vents / flares intact and in proper working condition?	☒	☐	☐	<u>3 vents require maintenance - see site map</u>
Are the vent openings unobstructed?	☐	☐	☐	

Landfill Cap

Item	YES	NO	N/A	Comments
Is the vegetation in good condition?	☒	☐	☐	
Does the vegetation cover the entire landfill?	☒	☐	☐	
Is mowing required?	☒	☐	☐	<u>Remove all woody veg from fence and gas vents</u>
Is there evidence of stressed vegetation or bare ground?	☐	☒	☐	
Is there evidence of animal burrowing or other damaging activity?	☐	☒	☐	
Are there any cracks or settlement of the landfill cap?	☐	☒	☐	
Is there any other evidence of damage to the landfill cap?	☐	☒	☐	

General

Item	YES	NO	N/A	Comments
Is there any evidence of staining or leachates seeps on or around the landfill?	☐	☒	☐	
Are the drainage structures in good condition?	☐	☒	☐	<u>East Drainage Ditch requires woody veg to be removed</u>
Is there any erosion or buildup of silt present in drainage structures?	☐	☒	☐	
Are the site access roads in good condition?	☒	☐	☐	
Is the maintenance building in good condition?	☐	☐	☒	
Is there any evidence of vandalism? If any please comment.	☐	☒	☐	

Notes

County must remove all trees from fence that have fallen or are
 (6) cut must. Veg from East Drainage Ditch cut woody veg
 from around gas vent - see site map & take photos for location

Steuben County - Lindley South Landfill

GAS SURVEY LOG

Logged by: GJY Date: 5/20/21
Instrument Model: MWH/2ae Bar. Pressure (in): 30.40
Temperature (F): 60.5 Sunny Wind Velocity (mph): 5-2 mph

Location	(% LEL)	Comments
GP-1	NIR	
GP-2		
GP-3		
GP-4		
GP-5		
GP-6		
GP-7		
GP-8		
GP-9		
GP-10		

NOTES:

NIR = No Instrument Response

Barton
& **Loguidice**



Calibration Certificate

rev 8/9/11

Work Order No.: SE-090178

Date of Service: 05/19/21

Order Time: 9:08:36 AM

Unit Under Test: RAE MultiRAE %Methane (FA02648) and Oxygen

Asset No.: FA00161 Technician Matt Cribbin

Serial No: MBB3Z037NA

Initials: 

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Four Gas Mix for RAE	Lot No. KCA-X05n179cp440024-1 Exp. 11/02/22	1
50% Methane & 35% Carbon Dioxide in N2	Lot No.304-402060911-1 Exp. 3/15/2025	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

7/27/21
JS

ENTRANCE AND PERIMETER:				
Entrance Driveway & Service Road Conditions		fair	poor	
Culverts		fair	poor	
Trespass Sign Conditions		fair	poor	
Fence/Gate Conditions		fair	poor	locked
Drainage Channels	clear	sediment	plugged	
Perimeter Drains	clear	sediment	plugged	
Evidence of Trespass	yes			
Evidence of Vehicle Use	yes			
Other				

LANDFILL CAP AREA			
Unauthorized Materials Present	yes	<u>no</u>	where
Uncovered Areas	yes	<u>no</u>	where
Vegetative Cover Conditions	<u>good</u>	fair	poor
Evidence of Vectors	yes	<u>no</u>	where
Evidence of Erosion	yes	<u>no</u>	where
Evidence of Pooled Water	yes	<u>no</u>	where
Evidence of Leachate Seepage	yes	<u>no</u>	where
Other			

MONITORING LOCATIONS			
Gas Vents	secure ✓	damaged	
Monitoring Wells/Picrometer	secure ✓	damaged	
Surface Water Monitoring Locations	flowing ✓	blocked	
Other			

[illegible]

CORRECTIVE MEASURES

South
~~West~~

Perimeter Gas Monitoring at Lindley ~~West~~ Landfill

Date:	7/27/21
Tester:	RB

Instrument: GEM 2000
Calibrated by: RB
date:

Weather: CLEAR

CLOUDY

RAIN

SNOW

Temperature:	76
Pressure:	29.15

Wellpoint	CH4 %
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0



Landfill Inspection Report

Location: Lindley South
 Client: Stevben County
 Job Number: 268027.021
 Inspector(s): ESV / RJB
 Date / Time: 11/22/21 @ 1500
 Weather / Temp: cloudy / 56°F

Site Security

Item	YES	NO	N/A	Comments
Is the gate to the landfill closed?	☒	☐	☐	
Is the gate locked and secure?	☒	☐	☐	
Is the perimeter fencing (if any) in good condition?	☒	☐	☐	<u>Veg/woody veg along South + West Fence line</u>

Monitoring Wells

Item	YES	NO	N/A	Comments
Are the wells flagged, identified, and painted?	☒	☐	☐	
Are all of the wells locked?	☒	☐	☐	
Are the wells in good condition?	☒	☐	☐	<u>Needs paint before further rust</u>

Gas Vents / Flares

Item	YES	NO	N/A	Comments
Are the vents / flares intact and in proper working condition?	☒	☐	☐	
Are the vent openings unobstructed?	☒	☐	☐	

Landfill Cap

Item	YES	NO	N/A	Comments
Is the vegetation in good condition?	☒	☐	☐	
Does the vegetation cover the entire landfill?	☒	☐	☐	<u>Small bare spots on South side</u>
Is mowing required?	☐	☒	☐	<u>Required Spring 2022</u>
Is there evidence of stressed vegetation or bare ground?	☐	☒	☐	
Is there evidence of animal burrowing or other damaging activity?	☐	☒	☐	
Are there any cracks or settlement of the landfill cap?	☐	☒	☐	
Is there any other evidence of damage to the landfill cap?	☐	☒	☐	<u>None observed</u>

General

Item	YES	NO	N/A	Comments
Is there any evidence of staining or leachates seeps on or around the landfill?	☐	☒	☐	
Are the drainage structures in good condition?	☒	☐	☐	<u>Vegetation growing in Eastern Swale</u>
Is there any erosion or buildup of silt present in drainage structures?	☐	☒	☐	
Are the site access roads in good condition?	☒	☐	☐	
Is the maintenance building in good condition?	☐	☐	☒	
Is there any evidence of vandalism? If any please comment.	☐	☒	☐	

Notes

Overall site in good condition. Cap and surrounding areas is wet and inaccessible by vehicle. Trees lying across Western and Southern Fence. Woody veg needs to be cleared from fence

Steuben County - Lindley South Landfill

GAS SURVEY LOG

Logged by: GJY / *RJB* Date: *11/22/21*
 Instrument Model: *MULTIRAE* Bar. Pressure (in): *29.96*
 Temperature (F): *Cloudy, 36°* Wind Velocity (mph): *W/W Rapp*

Location	(% LEL)	Comments
GP-1	<i>NIR</i>	
GP-2	<i>NIR</i>	
GP-3	<i>NIR</i>	
GP-4	<i>NIR</i>	
GP-5	<i>NIR</i>	
GP-6	<i>NIR</i>	
GP-7	<i>NIR</i>	
GP-8	<i>NIR</i>	
GP-9	<i>NIR</i>	
GP-10	<i>NIR</i>	

NOTES:

NIR = No Instrument Response

Barton
& **Loguidice**



Calibration Certificate

rev 8/9/11

Work Order No.: SE-097277

Date of Service: 11/19/21

Order Time: 9:31:17 AM

Unit Under Test: RAE MultiRAE Lite

Asset No.: FA01507

Technician: Brooke Derkowski

Initials: BTD

Serial No: M01CA01505

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
50% Methane & 35% Carbon Dioxide in N2	Lot No.304-402060911-1 Exp. 3/15/2025	1
Four Gas Mix for RAE	Lot No. KCA-X05n179cp440024-1 Exp. 11/02/22	1

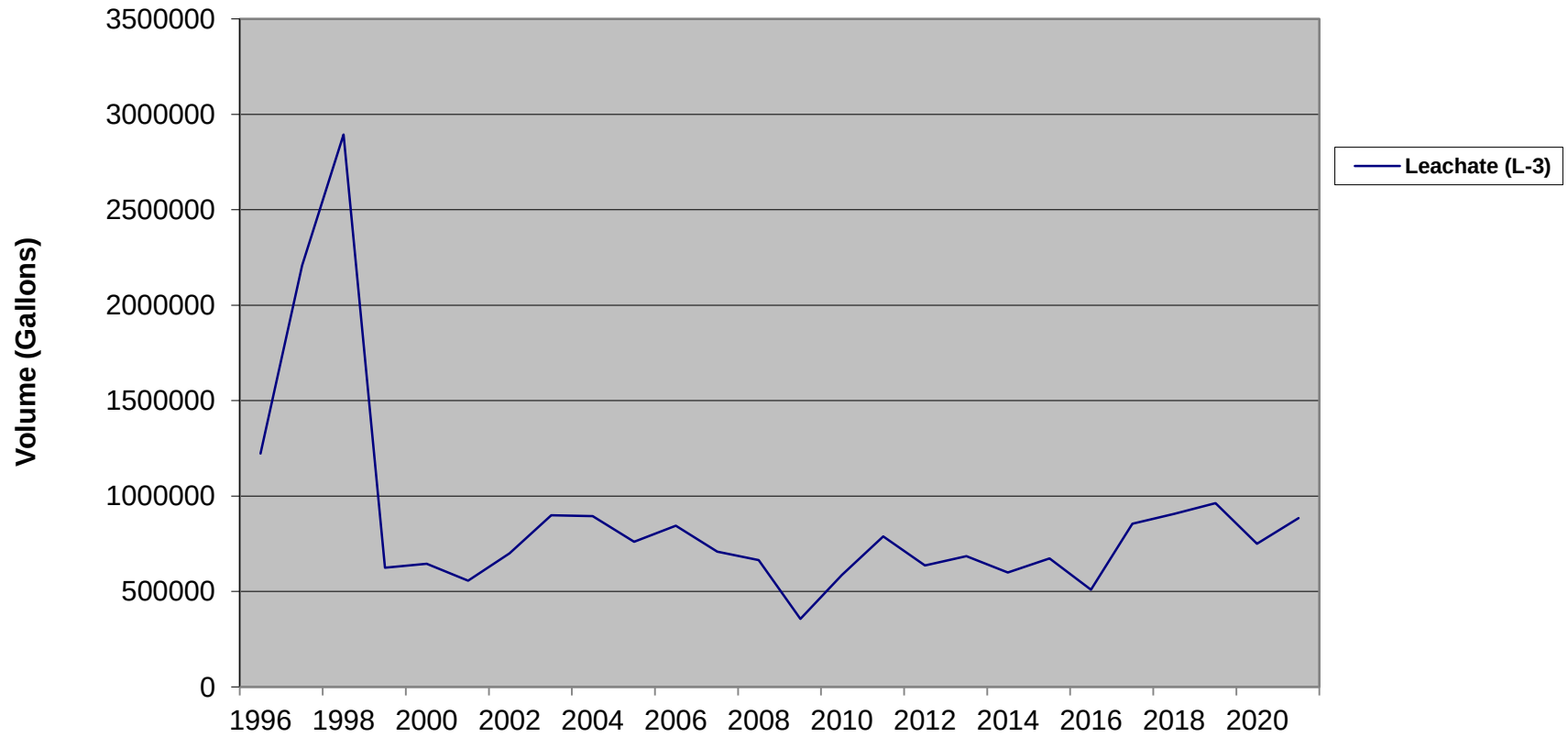
TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

Appendix B

Lindley South Landfill
Annual Leachate Generation(L-3)



Appendix C



Site Details

Box 1

Site No. 851008

Site Name Lindley Landfill (Closed Portion)

Site Address: South Side of Gibson Road Zip Code: 14858
City/Town: Lindley
County: Steuben
Site Acreage: 16.000

Reporting Period: January 01, 2021 thru December 31, 2021

YES NO

1.	Is the information above correct?	☒	☐
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development? ☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below? ☒ ☐
Closed Landfill
7. Are all ICs in place and functioning as designed? ☒ ☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date _____

Description of Institutional ControlsParcelOwnerInstitutional Control**387.00-01-029.000**

Steuben County

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

O&M Plan

institutional controls

- Deed Restriction, filed 5/3/2013
- ROD (2/98)
- Site Management Plan (4/99).

-

Description of Engineering ControlsParcelEngineering Control**387.00-01-029.000**

Fencing/Access Control
Cover System
Leachate Collection

Groundwater monitoring is required to evaluate effectiveness of remedy.

-part 360 cap

-fencing,

-gas venting

-leachate collection and treatment.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 851008

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Steven P. Orcutt at 3 East Pulteney Square, Bath, NY 14810
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Steven P. Orcutt

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

2/24/2022

Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Scott D. Nostrand at 443 Electronics Pkwy., Liverpool, NY
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

Scott D. Nostrand



Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

March 2, 2022
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.