Mr. Christopher O'Leary
United States Environmental Protection Agency, Region II
Western New York Remediation Section
290 Broadway
New York, New York 10007-1886

Arcadis of New York, Inc.
100 Chestnut Street
Suite 1020
Rochester
New York 14604
Phone: 585 385 0090
Fax: 585 546 1973
www.arcadis.com

Date: August 22, 2024
Our Ref: 30216492
Subject: 2024 Groundwater and Surface-Water Sampling and Analysis Report and Annual Site Inspection Checklist
Batavia Landfill Superfund Site
Batavia, New York

Dear Mr. O'Leary,

Arcadis of New York, Inc. (Arcadis) has prepared the 2024 Groundwater and Surface-Water Sampling and Analysis Report (Attachment 1) for the Batavia Landfill Superfund Site located in Batavia, New York (site). Arcadis performed the annual groundwater and surface-water sampling event at the site on May 23 and 24, 2024, which was performed in accordance with the Operation and Maintenance Plan (O&M Plan; Blasland, Bouck & Lee, Inc. [BBL] March 2003, Revised July 2003), including Arcadis' May 27, 2015 Addendum #1 to the O&M Plan, and the United States Environmental Protection Agency's March 27, 2007 approval for various modifications to the Environmental Monitoring Plan (included as Appendix A to the O&M Plan).

In addition, Arcadis conducted an annual site inspection on May 24, 2024 in accordance with the O&M Plan (BBL March 2003, Revised July 2003). Attachment 2 includes a copy of the site inspection checklist.

If you have any questions related to the 2024 Groundwater and Surface-Water Sampling and Analysis Report or the site inspection checklist, please contact me at 585.662.4024.

Sincerely,

Arcadis of New York, Inc.

Aaron Richardson
Senior Environmental Engineer

Email: aaron.richardson@arcadis.com
Direct Line: 585.662.4024

Mr. Christopher O'Leary
August 22, 2024

CC. Ms. Elizabeth Kaptein, New York State Department of Environmental Conservation
Ms. Amy Roe, United States Fish and Wildlife Services
Mr. James Doyle, United States Environmental Protection Agency
Les Greenbaum, Esq., Gross Shuman PC
Mr. Frank Pavia, Harris Beach PLLC
Mr. Tom Phelps, City of Batavia
Mr. Scott Allen, City of Batavia
Mr. Greg Post, Town of Batavia
Mr. Steven J. Mountain, P.E., Town of Batavia
Mr. Kevin Earl, Town of Batavia
Ms. Alexandria Almeter, Town of Batavia

Enclosures:
Attachment 1
Attachment 2

Attachment 1

Batavia Landfill Superfund Site

2024 Groundwater and Surface-Water Sampling and Analysis Report

Batavia, New York

August 2024

2024 Groundwater and Surface-Water Sampling and Analysis Report

Batavia, New York

August 2024

Prepared By:
Arcadis of New York, Inc.
100 Chestnut Street, Suite 1020
Rochester
New York 14604
Phone: 585 385 0090
Fax: 585 546 1973

Prepared For:
Batavia Landfill Superfund Site

Our Ref:
30216492

Contents

Tables

Figure

Appendices

Acronyms and Abbreviations

amsl	above mean sea level
Arcadis	Arcadis of New York, Inc.
BBL	Blasland, Bouck & Lee, Inc.
EMP	Environmental Monitoring Plan
GZA	GZA GeoEnvironmental of New York
MCL	Maximum Contaminant Level
NRWQC	National Recommended Water Quality Criteria
NYS TOGS 1.1.1	New York State Division of Water Technical and Operational Guidance Series 1.1.1
O&M	operation and maintenance
O&M Plan	Operation and Maintenance Plan
Report	2024 Groundwater and Surface-Water Sampling and Analysis Report
RI	remedial investigation
site	Batavia Landfill Superfund site located in Batavia, New York
TAL	Target Analyte List
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1 Introduction

Arcadis of New York, Inc. (Arcadis) has prepared this 2024 Groundwater and Surface-Water Sampling and Analysis Report (Report) to summarize recent annual groundwater and surface-water sampling and analysis activities performed on May 23 and 24, 2024 at the Batavia Landfill Superfund Site located in Batavia, New York (site). These activities were performed on behalf of the Town of Batavia and the City of Batavia, the parties undertaking operation and maintenance (O&M) activities at the site, in accordance with the Environmental Monitoring Plan (EMP; Blasland, Bouck & Lee, Inc. [BBL] 2003a), which is included as Appendix A to the United States Environmental Protection Agency- (USEPA-) approved Operation and Maintenance Plan (O&M Plan; BBL 2003b). The sample collection methodology was revised as detailed in Addendum #1 to the O&M Plan (Arcadis 2015).

In accordance with the O&M Plan (BBL 2003b), groundwater and surface-water sampling and analysis activities were/will be performed at the site quarterly for the first year (i.e., 2004), semiannually for the second and third years (i.e., 2005 and 2006), and annually thereafter (i.e., 2007 and beyond).

The remedial action implemented at the site is functioning as designed and continues to be protective of groundwater and surface-water quality at the site.

1.1 Site Description

The site is located approximately 3 miles west-northwest of the City of Batavia in the Town of Batavia, Genesee County, New York. The site consists of approximately 35 acres, bounded to the north by Galloway Swamp, to the east by Galloway Swamp and the Town of Batavia's closed sanitary landfill, to the south by Harloff Road, and to the west by private property.

1.2 Objectives of the Environmental Monitoring Program

The objectives for monitoring groundwater and surface water are to confirm that the concentrations of site-related constituents of concern do not increase in groundwater beneath the site or in surface-water areas adjacent to the site, and that the final cover system continues to perform as designed. The focus of the EMP (BBL 2003a) is on the southern disposal area where waste materials excavated from the northern and central areas were consolidated during the performance of remedial action activities at the site. This area was also capped with a final cover system and underlined with a leachate collection system installed as part of a completed remedial action for the site.

The EMP (BBL 2003a) will continue for 30 years during the performance of O&M activities at the site or until the USEPA approves a modification or termination of such activity. The USEPA modified the EMP pursuant to a March 27, 2007 letter (Appendix A), which includes the following modifications to the groundwater and surface-water sampling and analysis activities:

- Monitoring well BL-16R can be decommissioned.
- Discontinue reporting volatile organic compounds (VOCs) for monitoring well BL-107B.

1.3 Report Format

This Report is organized into the following sections:

Section 1: Introduction – Provides the purpose and objectives of the EMP (BBL 2003a), a site description, and contents of this Report.

Section 2: Hydrogeologic Conditions – Summarizes the hydrogeologic conditions of the site based on information obtained during the remedial investigation (RI) performed at the site by GZA GeoEnvironmental of New York (GZA) between 1987 and 1991, and further confirmed by additional investigation work performed by BBL in 2002.

Section 3: Groundwater and Surface-Water Sampling and Analysis – Summarizes sampling and analysis activities performed at the site during implementation of the EMP and presents the analytical results of groundwater and surface-water samples collected at the site during the 2024 annual sampling event.

Section 4: Conclusions – Provides brief conclusions based on the analytical results of groundwater and surface-water samples collected from the site.

Section 5: Schedule – Identifies the timeframe of when the next scheduled annual groundwater and surface-water sampling event will be performed at the site in 2025.

Section 6: References – Provides a list of references cited in this Report.

2 Hydrogeologic Conditions

2.1 Summary of Hydrogeologic Conditions

The RI for the site performed by GZA included two phases of investigation, as well as a supplemental sampling event. The subsurface investigation indicated that waste in the southern area generally consisted of industrial and municipal waste, with a bottom elevation ranging from approximately 894 feet above mean sea level (amsl) to approximately 904 feet amsl. Beneath these miscellaneous fill materials is an upper soil layer consisting of sand with varying amounts of silt, gravel, and peat. The upper soil layer is continuous over much of the site. Beneath the upper soil layer is a low-permeability soil layer consisting of clay and silt to clayey silt deposits occasionally interbedded with sands, gravels, and/or silts. The low-permeability soil layer is continuous in the southern portion of the site. A lower soil layer, consisting of sands with varying amounts of silt and gravel, appears to be continuous and overlies rock across much of the site, except the northern area, where the low-permeability soil layer extends to bedrock. Bedrock at the site is the Onondaga Limestone Formation, the top 10 feet of which appear to be highly fractured and weathered.

Visual characterization of subsurface samples collected during the installation of monitoring wells, as described in the EMP (BBL 2003a), support GZA's interpretation of the unconsolidated geologic units and bedrock underlying the site, as described above. BBL installed eight monitoring wells in 2002 to augment the monitoring network, including five wells (BL-100U, BL-101U, BL-102U, BL-103U, and BL-104U) to monitor the upper soil zone, one well (BL-105L) to monitor the lower soil zone, and two wells (BL-106B and BL-107B) to monitor groundwater within bedrock.

There are three flow systems at the site: upper soil, lower soil, and bedrock. Historical groundwater elevations in the upper soil in the northern area ranged from approximately 892 to 895 feet amsl, while the groundwater elevations in the upper soil in the southern area ranged from approximately 888 to 894 feet amsl. The USEPA's interpretation of the site hydrogeologic data suggest the following:

Wetlands present in the southeastern corner of the site recharge groundwater in that area.

A horizontal gradient is present in the northern and eastern areas, resulting in groundwater flow toward Galloway Swamp.

Groundwater mounding that occurs in waste in the southern portions of the site could result in radial flow in all directions away from the mounds.

The presence of a low-permeability soil layer limits downward flow and promotes horizontal flow on top of the layer, likely to the east.

Based on our review of previous groundwater elevations measured at the site, it appears that the USEPA's interpretation of hydrogeologic data described above remains valid.

2.2 Critical Stratigraphic Interval

Additional investigations performed as part of the Basis of Design (BBL 1999) substantiate the USEPA's interpretation of the southern area. In essence, the upper soil zone is continuous across the southern area and represents the first hydrogeological unit located directly below the waste/fill zone, as well as the critical stratigraphic interval for groundwater quality monitoring purposes. Based on the results of the additional

investigation, groundwater flow direction is radial from the central portion of the southern area. However, overall groundwater flow direction is from the west-southwest to the northeast and southeast.

Recent groundwater elevation measurements suggest that the groundwater flow direction in the upper soil zone remains generally consistent with the groundwater flow pattern previously observed at the site. Figure 1 presents the groundwater elevations observed in monitoring wells that screen the upper soil zone.

2.3 Groundwater Monitoring Well Network

Groundwater monitoring for the site focuses on the critical stratigraphic interval or upper soil zone, in accordance with the EMP (BBL 2003a). Presently, nine groundwater monitoring wells are being used to monitor groundwater quality as part of the EMP (Figure 1). The monitoring well network consists of five monitoring wells (BL-100U, BL-101U, BL-102U, BL-103U, and BL-104U) to monitor the upper soil zone, two monitoring wells (BL-105L and BL-10) to monitor the lower soil zone, and two monitoring wells (BL-106B and BL-107B) to monitor groundwater within bedrock. In addition, monitoring wells MW-5, BL-16R, BL-20, and MW-11 (Figure 1) are present within or adjacent to the site; however, these wells are not used for the EMP at this time.

2.4 Surface-Water Monitoring Locations

In addition to the groundwater monitoring well network described above, surface-water quality is typically monitored at sampling locations in Wetlands B and C (Figure 1).

3 Groundwater and Surface-Water Sampling and Analysis

The 2024 annual groundwater and surface-water sampling event was performed at the site on May 23 and 24, 2024 and included:

Collection of water-level data from groundwater monitoring wells in conjunction with the groundwater sampling event (Table 1 summarizes the groundwater elevations at the site for the last 10 years).

Collection of groundwater samples from nine groundwater monitoring wells (BL-10, BL-100U, BL-101U, BL-102U, BL-103U, BL-104U, BL-105L, BL-106B, and BL-107B).

Collection of surface-water samples from Wetland C. Wetland B was dry, preventing the collection of surface-water samples at that location.

Figure 1 illustrates the groundwater monitoring well and surface-water sampling locations.

The groundwater and surface-water samples were submitted to ALS Environmental for analysis of VOCs by USEPA Method 8260 and for Target Analyte List (TAL) metals by USEPA Methods 6010B/7000. The analytical results for all samples are presented in Tables 3 through 6 and include historical sample results for the last 10 years of monitoring.

All water generated during groundwater sampling activities was containerized and discharged into the onsite leachate storage tank.

3.1 Summary of Groundwater Sampling Analysis Results

Arcadis sampled nine groundwater monitoring wells (as listed above) on May 23 and 24, 2024. Purging was conducted in accordance with low-flow sampling protocols using a bladder pump at all groundwater monitoring wells. Water quality parameters (dissolved oxygen, oxidation-reduction potential, pH, temperature, specific conductivity, and turbidity) were measured in the field using portable equipment and recorded within the sampling logs. Appendix B provides copies of the field sampling logs. Table 2 summarizes the recorded groundwater field parameters.

Groundwater samples were collected from the groundwater monitoring wells after the water quality parameters had stabilized for three consecutive readings. All samples were collected directly from the dedicated polyethylene tubing. As indicated in the March 27, 2007 USEPA letter (Appendix A), VOC analysis at monitoring well BL-107B has been discontinued.

Appropriate quality assurance samples were also collected and analyzed in accordance with the EMP (BBL 2003a). These quality assurance samples included blind duplicates, trip blanks, equipment (rinse) blanks, and matrix spike/matrix spike duplicate samples.

Appendix C provides a copy of the laboratory analytical data report. Table 3 presents summaries of VOC analytical results for groundwater, and Table 4 presents inorganic results for groundwater. The following sections summarize the detectable concentrations that were reported for the groundwater sampling performed by Arcadis.

3.1.1 Volatile Organic Compounds

As shown in Table 3, VOCs were detected in all groundwater monitoring wells sampled in 2024. Detected VOC concentrations in groundwater monitoring wells were compared against the National Primary Drinking Water Regulations Maximum Contaminant Levels (MCLs) (USEPA 816-F-03-016, 2003). In addition to the MCL criteria, the New York State Division of Water Technical and Operational Guidance Series 1.1.1 (NYS TOGS 1.1.1) criteria is also included in Table 3 to provide an alternate guidance standard because many of the VOCs do not have an established MCL. One monitoring well (BL-104U) had a concentration of benzene above the Federal MCL. Three monitoring wells had concentrations of some VOCs above NYS TOGS 1.1.1 (BL-102U, BL-104U, and BL-10).

Analytical results for the groundwater samples collected during the 2024 annual sampling event were generally consistent with those of the previous sampling events and are summarized below:

VOC concentrations for the groundwater samples collected from monitoring wells BL-100U, BL-103U, BL-105L, and BL-106B were below the MCLs and NYS TOGS 1.1.1, which is consistent with previous sampling events.

The concentration of benzene detected at monitoring well BL-104U remained slightly above the Federal MCL and within the range of concentrations typically observed at this location.

The concentration of benzene for the groundwater sample collected from monitoring wells BL-10, and the concentrations of chloroethane for the groundwater samples collected at monitoring wells BL-102U and BL-10 remained consistent with concentrations previously observed at each location, and slightly above the respective NYS TOGS 1.1.1 criteria.

3.1.2 Inorganic Parameters

Groundwater samples were collected from the nine groundwater monitoring wells in 2024 for analysis of TAL metals. As shown in Table 4, arsenic was the only inorganic compound with a reported concentration greater than the MCLs (at monitoring wells BL-100U, BL-101U, and BL-10). In addition to the MCL criteria, the NYS TOGS 1.1.1 criteria are also included in Table 4 to provide an alternate guidance standard because many of the inorganics do not have an established MCL. Based on a comparison of the analytical results with NYS TOGS 1.1.1, arsenic, barium, iron, magnesium, manganese, and sodium exceeded the criteria in several of the monitoring wells.

Analytical results for the groundwater samples collected during the 2024 annual sampling event were generally consistent with those of previous sampling events, with the exceptions summarized below:

The concentration of arsenic for the groundwater sample collected from monitoring well BL-100U continues to fluctuate around the Federal MCL criteria, with the concentrations detected in 2023 and 2024 slightly above the Federal MCL. The concentration of arsenic at monitoring well BL-101U also continues to fluctuate around the NYS TOGS 1.1.1 criteria, with the concentrations detected in 2023 and 2024 slightly above NYS TOGS 1.1.1 and Federal MCL criteria.

3.2 Summary of Surface-Water Sampling Analysis Results

A surface-water sample was collected from Wetlands B and C on May 24, 2024 using a dedicated disposable bailer. Water quality parameters (dissolved oxygen, oxidation-reduction potential, pH, temperature, specific conductivity, and turbidity) were measured in the field using portable equipment and were recorded within the sampling log provided in Appendix B. Table 2 summarizes the recorded surface-water field parameters.

Appendix C provides a copy of the laboratory analytical data reports. Tables 5 and 6 provide summaries of VOC and inorganic analytical results, respectively, for surface water. The following subsections summarize the detectable concentrations that were reported for the surface-water sampling performed by Arcadis.

3.2.1 Volatile Organic Compounds

As shown in Table 5, VOCs in the surface-water samples collected from Wetlands B and C were low to non-detectable, with no exceedances of either the National Recommended Water Quality Criteria (NRWQC) and NYS TOGS 1.1.1 criteria. Low to non-detectable results are consistent with the results from previous sampling events.

3.2.2 Inorganic Parameters

As shown in Table 6, for the surface-water sample collected from Wetland B, concentrations of total cadmium were above the NRWQC, and total iron concentrations were above both NYS TOGS 1.1.1 criteria and NRWQC. No samples were collected from Wetland B in 2022 or 2023 due to the wetland being dry, but the concentrations observed in 2024 are consistent with concentrations observed during previous sampling events. For the surface-water sample collected from Wetland C, concentrations of total aluminum, total iron, and total lead increased to concentrations above the respective NYS TOGS 1.1.1 criteria and NRWQC, but all concentrations are consistent with the fluctuating concentrations observed during previous sampling events.

4 Conclusions

Conclusions from the results of the 2024 annual sampling event are as follows:

In general, concentrations of VOCs and inorganics in groundwater and surface water observed during the 2024 sampling event are consistent with historical concentrations, with modest concentration increases and decreases observed at certain locations.

- The remedial action implemented at the site is functioning as designed and continues to be protective of the groundwater and surface-water quality at the site.

It should be noted that the NYS TOGS 1.1.1 criteria was included in Tables 3 through 6 to provide an alternate guidance standard because many of the VOCs and inorganics do not have an established MCL or NRWQC, and the NYS TOGS 1.1.1 criteria are generally more stringent guidance values than the MCLs. Based on a comparison of VOC and inorganic analytical data generated for the last sampling events with the most stringent NYS TOGS 1.1.1, MCL, or NRWQC guidance values, many constituents continue to demonstrate very low concentrations, and as such, have not affected the groundwater quality.

5 Schedule

The 2025 annual groundwater and surface-water sampling event is currently scheduled to be performed at the site in May or June 2025.

6 References

Arcadis. 2015. Addendum #1 to the O&M Plan. Batavia Landfill Superfund Site, Batavia, New York. May 27.

BBL. 1999. Basis of Design, Batavia Landfill Superfund Site, Batavia, New York.

BBL. 2003a. Environmental Monitoring Plan, Batavia Landfill Superfund Site, Batavia, New York. March 2003, revised July 2003.

BBL. 2003b. Operation and Maintenance Plan, Batavia Landfill Superfund Site, Batavia, New York. March 2003, revised July 2003.

USEPA. 2003. National Primary Drinking Water Regulations Maximum Contaminant Levels. (United States Environmental Protection Agency 816-F-02-013). June 2003.

Tables

Table 1
Summary of Groundwater Measurement Data
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well ID	T.O.R. Reference Elevation (ft amsl)	June 1, 2015		May 25, 2016		June 22, 2017		May 29, 2018		June 4, 2019	
		Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
BL-100U	900.49	4.41	896.08	5.19	895.30	5.20	895.29	5.10	895.39	5.02	895.47
BL-101U	908.30	17.62	890.68	18.33	889.97	16.75	891.55	16.30	892.00	16.73	891.57
BL-102U	901.01	8.90	892.11	10.06	890.95	8.98	892.03	8.55	892.46	8.59	892.42
BL-103U	900.29	10.05	890.24	11.08	889.21	9.82	890.47	9.30	890.99	9.45	890.84
BL-104U	901.07	10.80	890.27	11.82	889.25	10.12	890.95	9.70	891.37	9.95	891.12
BL-105L	910.68	19.90	890.78	20.48	890.20	18.94	891.74	18.55	892.13	19.05	891.63
BL-106B	910.52	34.15	876.37	34.39	876.13	34.10	876.42	33.77	876.75	33.70	876.82
BL-107B	890.73	14.50	876.23	14.78	875.95	14.55	876.18	14.14	876.59	13.97	876.76
BL-10	895.31	5.60	889.71	6.89	888.42	5.86	889.45	5.52	889.79	5.56	889.75

Well ID	T.O.R. Reference Elevation (ft amsl)	May 27, 2020		May 12, 2021		May 3, 2022		October 11, 2023		May 23, 2024	
		Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
BL-100U	900.49	4.99	895.50	4.92	895.57	4.77	895.72	8.69	891.80	4.93	895.56
BL-101U	908.30	16.49	891.81	17.82	890.48	16.73	891.57	20.42	887.88	17.39	890.91
BL-102U	901.01	8.57	892.44	8.76	892.25	8.34	892.67	11.37	889.64	8.66	892.35
BL-103U	900.29	9.33	890.96	9.88	890.41	9.14	891.15	12.96	887.33	9.86	890.43
BL-104U	901.07	9.91	891.16	10.68	890.39	9.81	891.26	13.71	887.36	10.43	890.64
BL-105L	910.68	18.79	891.89	20.01	890.67	19.09	891.59	22.45	888.23	19.79	890.89
BL-106B	910.52	33.64	876.88	34.02	876.50	33.41	877.11	37.21	873.31	34.05	876.47
BL-107B	890.73	13.94	876.79	14.30	876.43	13.79	876.94	17.54	873.19	14.31	876.42
BL-16R	880.78	NS	--		--		--		--		--
BL-10	895.31	5.50	889.81	5.83	889.48	5.27	890.04	8.54	886.77	5.81	889.50

Notes:
All data expressed in feet.
-- = not available
ft amsl = feet above mean sea level
ft bgs = feet below ground surface
NS = not sampled
T.O.R. = top of polyvinyl chloride riser pipe

Table 2
Summary of Groundwater and Surface-Water Field Parameters
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Location	BL-100U									
Date Sampled	6/1/15	6/7/16	6/22/17	5/29/18	6/4/19	5/27/20	5/12/21	5/2/22	10/11/23	5/23/24
pH	6.95	7.01	7.08	7.30	7.17	6.93	7.06	7.39	6.89	6.95
Temp (°C)	8.6	9.9	11.0	12.9	10.1	11.3	9.8	8.8	14.1	10.1
Conductivity (mS/cm)	4.38	4.3	2.164	2.1	2.88	2.974	2.79	3.93	4.766	4.21
Dissolved Oxygen (mg/L)	0.55	1.40	0.00	6.45	0.20	0.18	0.00	0.29	1.30	0.39
Turbidity (NTU)	0	20.9	31.6	45.8	28.4	61.07	13.4	26.9	8.92	24
ORP (mV)	-123.0	-82.9	-115.8	-50.2	42.7	-90.9	-92.8	-98.9	15.5	-91.8

Location	BL-101U									
Date Sampled	6/1/15	6/7/16	6/22/17	5/29/18	6/4/19	5/27/20	5/13/21	5/2/22	10/11/23	5/23/24
pH	6.76	7.02	6.83	6.87	6.69	6.81	7.41	7.09	6.57	7.09
Temp (°C)	7.7	10.2	10.4	12.1	10.0	16.6	10.6	10.6	11.7	11.5
Conductivity (mS/cm)	2.93	1.39	1.316	1.2	1.34	1.18	0.86	0.86	1.482	1.16
Dissolved Oxygen (mg/L)	0.55	1.20	0.13	0.01	0.24	0.06	5.86	1.08	0.25	0.11
Turbidity (NTU)	55.7	38.1	36.1	68.5	53.1	179.02	91.9	25.8	15.74	45.3
ORP (mV)	-106.9	-70.7	-53.3	-46.0	113.0	-67.8	-3.0	-78.3	217.6	-474.1

Location	BL-102U									
Date Sampled	6/1/15	6/7/16	6/22/17	5/29/18	6/4/19	5/27/20	5/12/21	5/2/22	10/11/23	5/23/24
pH	6.57	6.85	6.57	6.52	6.72	6.56	6.73	6.85	6.32	6.81
Temp (°C)	11.0	10.4	12.4	13.1	12.2	17.1	10.8	10.1	12.7	11.8
Conductivity (mS/cm)	0.68	0.675	0.553	0.678	0.69	0.635	0.487	0.471	1.012	0.662
Dissolved Oxygen (mg/L)	0.13	1.70	0.24	0.54	0.20	0.20	0.00	0.20	0.15	0.02
Turbidity (NTU)	39.6	68.3	12.7	48.5	17	97.93	14.8	8.21	15.1	20.4
ORP (mV)	-121.2	-114.9	-37.5	-29.4	41.2	-46.6	-66.1	-123.1	96.5	-509.6

Table 2
Summary of Groundwater and Surface-Water Field Parameters
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Location	BL-103U									
Date Sampled	6/1/15	5/26/16	6/22/17	5/29/18	6/4/19	5/28/20	5/12/21	5/2/22	10/11/12	5/23/24
pH	6.78	7.66	6.74	6.81	6.63	6.68	6.86	7.12	6.37	6.83
Temp (°C)	8.3	11.1	13.0	12.1	11.1	10.8	9.9	9.0	14.9	12.7
Conductivity (mS/cm)	1.73	0.9	0.885	0.83	0.84	0.795	0.63	0.68	1.303	0.94
Dissolved Oxygen (mg/L)	0.60	8.06	0.04	0.01	0.01	0.06	0.00	0.36	0.23	0.16
Turbidity (NTU)	10.93	48.7	2.6	27.4	1.6	9.57	0.87	0.82	0.00	5.82
ORP (mV)	-148.4	-108.9	-97.3	76.4	-49.2	-72.1	-96.4	-85.6	-68.0	-460.2

Location	BL-104U									
Date Sampled	6/1/15	5/26/16	6/22/17	5/29/18	6/5/19	5/28/20	5/13/21	5/3/22	10/11/23	5/23/24
pH	6.41	6.40	6.30	6.50	7.01	6.27	6.54	6.85	6.51	6.32
Temp (°C)	8.4	12.1	10.9	13.2	11.3	12.9	11.5	9.8	14.6	11.5
Conductivity (mS/cm)	3.80	2.31	4.403	2.9	3.11	2.613	1.65	3.21	5.982	2.41
Dissolved Oxygen (mg/L)	0.40	1.25	0.06	0.01	0.03	0.04	0.00	0.34	1.14	0.40
Turbidity (NTU)	13.4	6.04	0.8	36.7	0.42	3.22	12.5	5.77	1.29	2.10
ORP (mV)	-107.1	-56.4	-75.1	-51.5	12.2	-34.9	-33.9	-53.7	85.6	-29.6

Location	BL-105L									
Date Sampled	6/1/15	5/26/16	6/22/17	5/29/18	6/4/19	5/27/20	5/12/21	5/2/22	10/11/23	5/23/24
pH	6.85	7.44	6.84	6.55	6.88	6.76	7.03	7.01	7.20	6.80
Temp (°C)	9.7	11.3	9.9	12.3	10.7	14.9	10.3	11.1	11.6	14.5
Conductivity (mS/cm)	0.94	0.97	1.000	1.055	0.96	0.87	0.64	0.65	0.90	0.95
Dissolved Oxygen (mg/L)	0.67	6.26	1.28	0.66	0.70	1.83	0.43	1.02	3.42	1.17
Turbidity (NTU)	6.21	11.6	12.4	0	1.22	32.49	1.59	2.95	3.45	6.05
ORP (mV)	-186.7	-148.2	-85.1	-65.4	59.1	-51.9	-62.8	-110.6	97.5	-61.2

Table 2
Summary of Groundwater and Surface-Water Field Parameters
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Location	BL-106B									
Date Sampled	6/1/15	5/25/16	6/22/17	5/29/18	6/4/19	5/28/20	5/12/21	5/3/22	10/12/23	5/24/24
pH	7.06	7.07	7.10	6.85	6.84	7.06	7.26	7.48	7.46	7.00
Temp (°C)	10.2	10.8	11.1	12.4	10.3	11.5	10.1	10.2	10.8	10.8
Conductivity (mS/cm)	1.16	1.22	0.851	1.225	1.25	1.046	0.79	0.654	0.984	1.22
Dissolved Oxygen (mg/L)	0.18	0.14	0.16	0.53	0.27	0.20	2.04	0.25	1.71	0.56
Turbidity (NTU)	4.07	4.07	18.2	76.7	15.5	33.98	17.8	11.4	13.2	5.24
ORP (mV)	-137.2	-120.5	-55.3	-48.3	-9.3	-126.8	-97.6	-161.9	102.3	-75.2

Location	BL-107B									
Date Sampled	6/1/15	5/25/16	6/22/17	5/29/18	6/4/19	5/27/20	5/13/21	5/3/22	10/12/23	5/24/24
pH	8.43	7.21	7.08	6.85	7.05	7.14	7.25	7.57	6.80	7.26
Temp (°C)	9.0	9.2	11.6	10.9	8.4	9.4	8.5	8.0	9.4	9.9
Conductivity (mS/cm)	0.76	1.53	1.232	1.533	1.49	1.484	0.91	1.54	2.277	1.62
Dissolved Oxygen (mg/L)	0.00	1.22	0.33	0.66	0.04	0.20	0.33	0.47	0.12	0.11
Turbidity (NTU)	12.7	8.19	21.9	10.2	11.36	7.14	11.34	5.14	11.06	4.14
ORP (mV)	-369.5	-151.3	-77.0	-64.5	-52.0	-135.3	-76.2	-114.0	-118.7	-357.7

Location	BL-10									
Date Sampled	6/1/15	5/25/16	6/22/17	5/29/18	6/5/19	5/27/20	5/12/21	5/2/22	10/12/23	5/23/24
pH	6.74	6.78	6.72	6.67	6.84	6.56	6.75	7.11	6.41	6.59
Temp (°C)	8.4	10.0	11.6	13.0	11.6	11.8	9.5	9.5	14.4	11.8
Conductivity (mS/cm)	3.04	2.05	1.557	1.885	1.91	2.108	1.4	1.56	2.259	2.03
Dissolved Oxygen (mg/L)	0.26	0.11	0.09	0.57	0.22	0.20	0.00	0.30	0.27	0.38
Turbidity (NTU)	2.01	2.01	5.6	1.1	1.9	0.46	2.58	4.11	0.00	4.85
ORP (mV)	-125.0	-113.1	-46.9	-51.1	8.3	-62.2	-68.7	-51.1	-93.8	-48.4

Table 2
Summary of Groundwater and Surface-Water Field Parameters
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Location	Wetland B-1										
Date Sampled	6/1/15	5/25/16	6/22/17	5/29/18	6/4/19	5/28/20	5/13/21	5/3/22	6/22/22	10/11/23	5/23/24
pH	7.32	NS	NS	7.45	6.72	6.60	7.24	7.39	NS	NS	7.32
Temp (°C)	13.9	NS	NS	25.1	14.9	20.1	12.1	15.9	NS	NS	23.30
Conductivity (mS/cm)	0.244	NS	NS	0.312	0.238	0.335	0.221	0.452	NS	NS	0.368
Dissolved Oxygen (mg/L)	2.77	NS	NS	1.60	3.00	0.25	3.41	3.29	NS	NS	0.9
Turbidity (NTU)	14.5	NS	NS	16208.3	7.05	12.44	1.73	7.92	NS	NS	NA
ORP (mV)	9.1	NS	NS	82.7	79.3	-24.5	50.5	-62.0	NS	NS	-110.8

Location	Wetland C-1										
Date Sampled	6/1/15	5/25/16	6/22/17	5/29/18	6/5/19	5/28/20	5/13/21	5/3/22	6/22/22	10/11/23	5/23/24
pH	7.63	7.71	NS	6.68	6.78	6.71	6.98	8.02	7.35	7.76	7.59
Temp (°C)	14.9	21.7	NS	30.9	16.1	21.8	12.4	15.4	29.9	14.8	25.8
Conductivity (mS/cm)	0.235	0.0371	NS	0.418	0.353	0.302	0.239	0.301	0.316	0.676	0.339
Dissolved Oxygen (mg/L)	8.32	8.11	NS	0.74	1.24	0.52	4.67	6.37	3.30	11.90	4.31
Turbidity (NTU)	13.2	12.9	NS	4462.9	0.27	2.43	4.28	9.13	22.2	0.00	NA
ORP (mV)	13.6	-51.6	NS	-12.7	124.8	-63.2	-15.4	-65.4	181.1	183.6	-33.8

Notes:
°C = degrees Celsius
mS/cm = milliSiemens per centimeter
mg/L = milligrams per liter
NTU = nephelometric turbidity unit
mV = millivolts
NA = not available
NS = not sampled
ORP = oxidation-reduction potential

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-100U									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	06/07/16	06/22/17	05/29/18	06/05/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	-	1.9 J	-	5.5	-	-	-	-	-
Benzene	1	5	0.26 J	-	-	-	-	-	-	-	-	-
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	0.28 J	-	-	-
cis-1,2-Dichloroethene	5	70	-	-	-	-	-	-	-	-	-	0.29 J
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	0.33 J	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	0.44 J	-	-	-	-	-	-	-	0.84 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	-	-	-	-	0.22 J
Vinyl Chloride	2	2	-	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-101U									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	06/07/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	7.8	8	9	5.9	5.9	5.4	3.5	6.9	5	6.7
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	0.21 J	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	-	2.1 J	-	4.1 J	-	-	-	-	-
Benzene	1	5	0.62 J	0.37 J	0.33 J	0.37 J	0.36 J	0.37 J	-	-	0.28 J	0.31 J
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	1.8 J	0.73 J	0.63 J	0.94 J	1.1	0.91 J	0.36 J	0.56 J	1.0	0.73 J
Chloroethane	5	NA	2.4 J	1.8	1.6	1.2	1.4	-	0.49 J	-	0.93 J	0.67 J
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	0.34 J	-	-	-	-	-
cis-1,2-Dichloroethene	5	70	1.4 J	0.98 J	0.94 J	0.91 J	0.89 J	0.82 J	0.55 J	0.73 J	0.58 J	0.65 J
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	0.47 J	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	0.26 J	-	-	-	-	-	-	0.71 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	-	-	0.33 BJ	-	-
Vinyl Chloride	2	2	0.51 J	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-102U									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	06/07/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	1.8 J	1.9	0.21 J	0.58 J	0.60 J	0.74 J	0.64 J	0.67 J	0.60 J	0.65 J
1,1-Dichloroethene	5	7	0.72 J	2.3	-	0.91 J	0.80 J	1.1	1.0	1.0	0.92 J	1.3
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	1.4 J	1.8 J	-	6.1	-	-	-	-	-
Benzene	1	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	NA	33	40	24	30	32	24	20	18	12	14
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	-	0.30 J	-	-
cis-1,2-Dichloroethene	5	70	1.1 J	3.9	-	1.4	1.4	1.9	1.5	1.8	1.7	2.4
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	0.74 J	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	-	-	-	-	-	-	-	0.63 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	-	-	0.36 BJ	-	-
Vinyl Chloride	2	2	0.57 J	1.6	0.90 J	1.2	1.5	1.3	1.4	1.2	1.0	1.4

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-103U									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	05/26/16	06/22/17	05/29/18	06/04/19	05/28/20	05/12/21	05/02/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	2.1 J	2.2 J	-	2.4 J	-	-	-	-	-
Benzene	1	5	-	-	0.30 J	0.26 J	0.22 J	-	-	-	0.32 J	0.26 J
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	-	-	-	0.30 J	0.32 J	0.25 J	-	0.23 J	0.43 J	0.24 J
Chloroethane	5	NA	0.31 J	-	-	-	0.33 J	-	-	-	-	-
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	5	70	0.30 J	-	-	0.40 J	0.32 J	-	-	0.26 J	0.25 J	0.40 J
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	-	-	-	-	-	-	-	0.64 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	0.86 J	-	0.46 BJ	-	-
Vinyl Chloride	2	2	-	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-104U									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	05/26/16	06/22/17	05/29/18	06/05/19	05/28/20	05/12/21	05/03/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	0.25 J	0.30 J	0.91 J	0.48 J	0.54 J	0.55 J	0.31 J	0.36 J	0.36 J	0.30 J
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	-	-	-	3.2 J	-	-	-	-	-
Benzene	1	5	4.2 J	7.8	4.7	2.9	3.8	4.6	5.0	3.6	6.7	6.1
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	0.33 J	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	3.1 J	4.2	5.5	3.5	4.4	5.1	3.6	4.5	6.9	5.6
Chloroethane	5	NA	3.8 J	7.1	4.4	3.0	4.4	4.6 B	4.3	3.0	3.0	3.5
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	5	70	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	-	-	-	-	-	-	-	-	0.21 J
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	-	-	-	-	-	-	-	0.92 J	-
trans-1,2-Dichloroethene	5	100	-	0.57 J	-	-	0.21 J	0.44 J	0.33 J	-	0.41 J	0.35 J
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	0.30 J	-	0.31 BJ	-	-
Vinyl Chloride	2	2	-	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-105L									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	05/26/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	1.9 J	4.8 J	9.3	14	7.3	-	-	11	-	6.2
Benzene	1	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	0.42 J	-	1.7	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	5	70	-	-	-	-	-	-	0.31 J	0.26 J	-	0.26 J
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	-	0.35 J	5.5	2.4	1.2	-	-	0.71 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	0.70 J	0.89 J	1.1	0.37 J	0.45 J	0.71 J	0.49 J	0.57 BJ	0.65 J	-
Vinyl Chloride	2	2	-	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-106B									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	05/25/16	06/22/17	05/29/18	06/04/19	05/28/20	05/12/21	05/03/22	10/12/23	05/24/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	0.24 J	0.26 J	0.28 J	0.24 J	0.27 J	-	0.37 J	-	0.24 J	0.34 J
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	1.6 J	1.4 J	-	3.2 J	-	-	-	-	-
Benzene	1	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	5.3	-	-	8.7	4.5	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	NA	0.99 J	1.3	-	-	-	-	-	-	-	-
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	5	70	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	-	-	-	-	-	-	-	0.57 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	2	2	-	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 3
Summary of Volatile Organic Compounds Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-10									
Date Sampled	NYS TOGS 1.1.1	Federal MCL	06/01/15	05/25/16	06/22/17	05/29/18	06/05/19	05/27/20	05/12/21	05/02/22	10/12/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	5	200	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	5	NA	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	1	5	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	NA	0.35 J	0.47 J	0.50 J	0.38 J	0.36 J	0.35 J	0.51 J	-	-	0.38 J
1,1-Dichloroethene	5	7	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	5	-	-	-	-	-	-	-	-	0.41 J	-
1,2-Dichloropropane	1	5	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	50	NA	-	-	-	-	-	-	-	-	-	-
2-Hexanone	50	NA	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	-	-	-	-	-	-	-	-
Acetone	50	NA	-	2.8 J	1.6 J	-	4.3 J	-	-	-	-	-
Benzene	1	5	2.7 J	2.9	2.9	2.9	2.7	2.5	2.9	2.6	3.4	3.2
Bromodichloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Bromoform	50	NA	-	-	-	-	-	-	-	-	-	-
Bromomethane	5	NA	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	5	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	5	100	1.4 J	1.5	1.3	1.3	1.4	1.5	1.5	1.3	1.9	1.6
Chloroethane	5	NA	37	35	42	30	36	35	30	30	25	23
Chloroform	7	NA	-	-	-	-	-	-	-	-	-	-
Chloromethane	NA	NA	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	5	70	-	0.34 J	-	-	0.26 J	-	-	-	-	-
cis-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	50	NA	-	-	-	-	-	-	-	-	-	-
Dichloromethane	5	5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	5	700	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
o-Xylene	5	10000 [1]	-	-	-	-	-	-	-	-	-	-
Styrene	5	100	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Toluene	5	1000	-	-	-	-	-	-	-	-	0.61 J	-
trans-1,2-Dichloroethene	5	100	-	-	-	0.27 J	0.22 J	-	0.27 J	-	0.25 J	0.26 J
trans-1,3-Dichloropropene	0.4**	NA	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	5	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	2	2	-	-	-	-	-	-	-	-	-	-

See notes on page 9.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-100U									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	06/07/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Inorganics												
Aluminum	NA	NA	2050	2190	2160	1720	247	156	48.8 J	139	80 J	70 J
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	25.6	-	25.5	-	16.5	9.9 J	6.8 J	8.2 J	14	17
Barium	1000	2000	739	307	128	119	152	169	225	216	296	237
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	0.4 J
Calcium	NA	NA	552000	179000	63000	72600	95500	115000	137000	126000	172000	143000
Chromium	50	100	-	-	-	-	-	-	-	-	-	-
Cobalt	NA	NA	-	-	-	-	-	-	-	-	-	-
Copper	200	1300 [1]	22.9	-	-	-	-	-	-	-	-	-
Iron	300	NA	27200	9130	12500	7310	9280	9360	10300	10400	11200	12500
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	140000	36400	12700	15400	19200	26200	32100	29800	39300	32500
Manganese	300	NA	1920	414	151	205	207	253	306	278	357	294
Mercury	0.7	2	0.254	-	-	-	-	-	-	-	-	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	-
Potassium	NA	NA	2850	3270	2570	2300	-	1780 J	2250	1940 J	3300	2500
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	567000	651000	401000	403000	462000	477000	621000	650000	630000	711000
Thallium	0.5	2	-	-	-	-	-	-	6.9 J	-	-	-
Vanadium	NA	NA	-	-	-	-	-	-	1.5 J	1.5 J	1 J	2 J
Zinc	2000	NA	42.0	-	-	-	-	-	-	-	4 J	8 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-101U									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	06/07/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Inorganics												
Aluminum	NA	NA	-	537	853	379	-	862	2260	85.8 J	50 J	120
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	68.6	32.8	27.1	39.7	30.6	91.7	18	18.9	54	38
Barium	1000	2000	724	457	440	496	512	545	452	408	425	405
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	-
Calcium	NA	NA	126000	112000	118000	111000	114000	106000	126000	103000	99300	98900
Chromium	50	100	-	-	-	-	-	1.0 J	3.4 J	-	-	-
Cobalt	NA	NA	-	-	-	-	-	6.5 J	5.8 J	6.1 J	5 J	5 J
Copper	200	1300 [1]	-	-	-	-	-	-	7.8 J	-	-	-
Iron	300	NA	17000	8540	8410	13100	10600	20000	6600	5140	8270	7980
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	124000	109000	116000	112000	114000	106000	115000	102000	99600	99900
Manganese	300	NA	168	347	404	308	245	282	379	283	232	262
Mercury	0.7	2	-	-	-	-	-	-	-	-	-	-
Nickel	100	NA	-	-	-	-	-	-	7.3 J	5.4 J	-	8 J
Potassium	NA	NA	4880	3030	2970	3160	3560	3390	4110	3190	3200	3300
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	37300	32900	32800	27800	26300	23500	23500	23400	17500	22200
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	2.4 J	7.3 J	-	-	-
Zinc	2000	NA	-	-	-	-	-	12.2 J	20.7	4.1 J	7 J	8 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-102U									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	06/07/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Inorganics												
Aluminum	NA	NA	290	4260	350	2360	717	468	356	228	1070	690
Antimony	3	6	-	-	-	-	-	5.0 J	-	-	-	-
Arsenic	25	10	-	-	-	-	-	-	-	-	-	-
Barium	1000	2000	104	87.7	91.4	81.5	73.2	83.5	68.1	64.2	65	54
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	-
Calcium	NA	NA	98500	95600	95800	95700	94300	92100	89000	88000	88200	85600
Chromium	50	100	-	-	-	-	-	1.2 J	1.2 J	-	3 J	2 J
Cobalt	NA	NA	-	-	-	-	-	-	-	-	1 J	-
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	-
Iron	300	NA	7100	8790	6350	7320	6380	5740	6800	5610	6910	6080
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	31700	32500	30100	32300	31600	29100	31100	29300	31400	31300
Manganese	300	NA	252	263	231	223	207	195	219	187	227	199
Mercury	0.7	2	-	-	-	-	-	-	-	-	-	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	-
Potassium	NA	NA	3590	4290	3510	3440	2830	2600	2840	2390	3000	2500
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	12300	10500	13400	10100	9730	9390	10000	8350	9700	8500
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	-	4.2 J	3.3 J	5 J	4 J
Zinc	2000	NA	-	-	-	-	-	-	-	3.1 J	8 J	12 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-103U									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	05/26/16	06/22/17	05/29/18	06/04/19	05/28/20	05/12/21	05/02/22	10/11/23	05/23/24
Inorganics												
Aluminum	NA	NA	-	9860	-	-	-	-	-	-	-	-
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	-	31.9	-	-	-	-	-	-	10 J	7 J
Barium	1000	2000	86.4	197	106	97	94.7	83	91.7	89.5	140	106
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	0.4 J
Calcium	NA	NA	109000	148000	128000	125000	123000	117000	127000	130000	140000	130000
Chromium	50	100	-	11.7	-	-	-	-	-	-	-	-
Cobalt	NA	NA	-	-	-	-	-	-	-	-	-	-
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	-
Iron	300	NA	11100	16400	11400	12300	12100	7920	13800	15800	15900	15000
Lead	25	15 [1]	-	-	-	-	-	-	2.4 J	-	-	-
Magnesium	35000	NA	34300	51900	39300	39300	37500	35200	38600	37900	42300	40900
Manganese	300	NA	261	339	268	194	189	192	262	276	177	212
Mercury	0.7	2	-	-	-	-	-	-	-	-	-	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	-
Potassium	NA	NA	-	5870	-	-	-	1510 J	1490 J	1430 J	2100	1700 J
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	16400	19000	15800	13100	11300	9960	10100	9810	11400	11000
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	-	-	-	-	-
Zinc	2000	NA	-	54	-	-	-	-	-	-	4 J	4 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-104U									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	05/26/16	06/22/17	05/29/18	06/05/19	05/28/20	05/12/21	05/03/22	10/11/23	05/23/24
Inorganics												
Aluminum	NA	NA	-	-	-	-	-	-	64.9 J	40.4 J	-	-
Antimony	3	6	-	-	-	-	-	-	-	6.6 J	-	-
Arsenic	25	10	-	-	-	-	-	-	6.9 J	-	-	-
Barium	1000	2000	496	438	727	416	471	427	414	554	566	464
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	0.6 J
Calcium	NA	NA	214000	215000	287000	190000	229000	198000	214000	215000	219000	230000
Chromium	50	100	-	-	-	-	-	-	-	-	-	-
Cobalt	NA	NA	-	-	-	-	-	-	-	-	-	-
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	-
Iron	300	NA	28700	24100	32400	20500	25300	26200	31200	27900	23800	32600
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	50800	46600	63200	40100	43800	42900	51800	47700	42300	52500
Manganese	300	NA	302	275	347	216	275	277	295	296	255	310
Mercury	0.7	2	-	-	-	-	-	-	-	-	0.12 J	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	-
Potassium	NA	NA	6690	6100	11400	6510	6260	4950	5120	6610	7300	5900
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	293000	208000	519000	396000	382000	322000	182000	432000	292000	194000
Thallium	0.5	2	-	-	-	-	-	-	6.7 J	-	-	-
Vanadium	NA	NA	-	-	-	-	-	1.1 J	1.5 J	1.0 J	2 J	1 J
Zinc	2000	NA	-	-	-	-	-	-	-	3.9 J	6 J	7 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-105L									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	05/26/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/02/22	10/11/23	05/23/24
Inorganics												
Aluminum	NA	NA	-	678	-	-	-	27.5 J	-	29.2 J	50 J	-
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	-	10.3	53.2	43.6	-	5.9 J	-	-	8 J	8 J
Barium	1000	2000	84.9	93.3	105	88.6	78.9	78.6	74.6	75.6	95	83
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	0.4 J
Calcium	NA	NA	127000	128000	135000	135000	131000	117000	121000	118000	116000	124000
Chromium	50	100	-	-	-	-	-	-	-	-	-	-
Cobalt	NA	NA	-	-	-	-	-	1.3 J	-	1.1 J	1 J	
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	11 J
Iron	300	NA	3980	7050	8230	21900	9720	9260	7790	7150	6930	12200
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	4.2 J
Magnesium	35000	NA	52100	52900	56400	58400	55700	50400	50800	50200	50600	52300
Manganese	300	NA	841	269	570	390	480	279	240	392	138	298
Mercury	0.7	2	-	-	-	-	-	-	-	-	-	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	3 J
Potassium	NA	NA	-	-	-	-	-	790 J	718 J	759 J	900 J	1000 J
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	9200	7210	9740	13000	8140	6680	5720	6010	5900	6300
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	-	-	-	1 J	1 J
Zinc	2000	NA	-	-	-	-	-	-	-	-	5 J	11 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-106B									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	05/25/16	06/22/17	05/29/18	06/04/19	05/28/20	05/12/21	05/03/22	10/12/23	05/24/24
Inorganics												
Aluminum	NA	NA	-	-	-	596	191	-	-	-	30 J	-
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	-	-	-	-	-	-	-	-	-	-
Barium	1000	2000	953	945	911	1000	1080	741	870	808	714	974
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	0.400 J	-	-	-
Calcium	NA	NA	109000	114000	118000	142000	134000	99000	110000	106000	97700	115000
Chromium	50	100	-	-	-	-	-	-	-	-	-	-
Cobalt	NA	NA	-	-	-	-	-	-	-	-	-	-
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	-
Iron	300	NA	4000	34900	12000	9960	3730	20800	45300	33200	36200	10200
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	71500	71800	74800	80300	80900	64700	72700	68600	64200	74700
Manganese	300	NA	35.1	73.3	47.9	57.0	45.1	110	134	75.9	44.0	42
Mercury	0.7	2	-	-	-	-	-	-	-	-	0.10 J	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	-
Potassium	NA	NA	5750	5990	5320	6730	7370	3900	4930	4380	3500	6900
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	18800	20100	19700	21700	21400	16200	18100	17100	14500	21200
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	0.700 J	1.3 J	-	1 J	-
Zinc	2000	NA	-	-	-	-	-	-	-	3.2 J	5 J	5 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-107B									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	05/25/16	06/22/17	05/29/18	06/04/19	05/27/20	05/12/21	05/03/22	10/12/23	05/24/24
Inorganics												
Aluminum	NA	NA	-	-	-	-	-	-	-	-	-	-
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	-	-	-	-	-	-	-	-	-	-
Barium	1000	2000	502	1380	1670	1550	1270	1320	1270	1160	661	1290
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	-
Calcium	NA	NA	39000	90700	119000	105000	103000	91900	90700	94100	108000	101000
Chromium	50	100	-	-	-	-	-	-	-	-	-	-
Cobalt	NA	NA	-	-	-	-	-	-	-	-	-	-
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	-
Iron	300	NA	39000	10500	7520	26100	12800	8340	8110	4970	9430	7880
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	58400	73400	87300	80400	71700	69300	72000	67000	59800	78800
Manganese	300	NA	300	115	124	200	128	129	117	105	97	126
Mercury	0.7	2	-	-	-	-	-	-	-	-	-	-
Nickel	100	NA	-	-	-	-	-	-	-	-	-	-
Potassium	NA	NA	55300	47000	50200	50800	43200	43600	46500	41000	20800	47000
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	7110	52300	65100	71600	79800	72600	52400	93000	164000	89900
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	-	-	-	-	0.7 J
Zinc	2000	NA	-	-	-	-	-	-	-	-	3 J	5 J

See notes on page 10.

Table 4
Summary of Metals Analytical Results for Groundwater Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.			BL-10									
Date Sampled	NYS TOGS 1.1.1	Federal MCLs	06/01/15	05/25/16	06/22/17	05/29/18	06/05/19	05/27/20	05/12/21	05/02/22	10/12/23	05/23/24
Inorganics												
Aluminum	NA	NA	-	-	-	-	-	-	-	-	40 J	-
Antimony	3	6	-	-	-	-	-	-	-	-	-	-
Arsenic	25	10	37.2	38.2	38.7	36.6	26.9	28	39.6	31.3	41	38
Barium	1000	2000	1180	1160	1220	1110	1130	1190	1160	1180	1100	1060
Beryllium	3	4	-	-	-	-	-	-	-	-	-	-
Cadmium	5	5	-	-	-	-	-	-	-	-	-	0.4 J
Calcium	NA	NA	98900	107000	117000	109000	117000	116000	119000	117000	113000	114000
Chromium	50	100	-	-	-	-	-	-	0.700 J	-	-	-
Cobalt	NA	NA	-	-	-	-	-	8.1 J	7.4 J	7.5 J	7 J	7 J
Copper	200	1300 [1]	-	-	-	-	-	-	-	-	-	-
Iron	300	NA	12800	12500	13500	13100	12300	13100	13800	13700	13400	14100
Lead	25	15 [1]	-	-	-	-	-	-	-	-	-	-
Magnesium	35000	NA	104000	104000	110000	103000	106000	108000	108000	104000	95700	96200
Manganese	300	NA	30.1	26.3	31.6	30.1	34.5	28.7	25.2	21.7	23	22
Mercury	0.7	2	-	-	-	-	-	-	-	-	0.11 J	-
Nickel	100	NA	-	-	-	-	-	3.4 J	9.5 J	5.2 J	-	10 J
Potassium	NA	NA	32500	30800	33900	31900	30400	28600	29300	28700	27500	28000
Selenium	10	50	-	-	-	-	-	-	-	-	-	-
Silver	50	NA	-	-	-	-	-	-	-	-	-	-
Sodium	20000	NA	107000	108000	125000	112000	111000	119000	128000	143000	128000	153000
Thallium	0.5	2	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	-	-	-	-	-	-	-	-	-	0.7 J
Zinc	2000	NA	-	-	-	-	-	-	-	4.4 J	7 J	6 J

See notes on page 10.

Table 5
Summary of Volatile Organic Compounds Analytical Results for Surface-Water Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.	NYS TOGS 1.1.1	Federal WQCs	Wetland B-1									
Date Sampled			06/01/15	05/25/16	06/22/17	05/29/18	06/04/19	05/28/20	05/12/21	05/03/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
1,1,2,2-Tetrachloroethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
1,1,2-Trichloroethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
1,1-Dichloroethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
1,1-Dichloroethene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
1,2-Dichloroethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
1,2-Dichloropropane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
2-Butanone (MEK)	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
2-Hexanone	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Acetone	NA	NA	-	NS	NS	7.8	8.1	4.3 J	-	6.8	NS	6.7
Benzene	210	NA	-	NS	NS	-	-	-	-	-	NS	-
Bromodichloromethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Bromoform	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Bromomethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Carbon Disulfide	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Carbon Tetrachloride	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Chlorobenzene	5	NA	-	NS	NS	-	-	-	-	-	NS	-
Chloroethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Chloroform	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Chloromethane	NA	NA	-	NS	NS	-	-	0.40 J	-	-	NS	-
cis-1,2-Dichloroethene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
cis-1,3-Dichloropropene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Dibromochloromethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Dichloromethane	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Ethylbenzene	17	NA	-	NS	NS	-	-	-	-	-	NS	-
M,P-Xylenes	65 [1]	NA	-	NS	NS	-	-	-	-	-	NS	-
O-Xylene	65 [1]	NA	-	NS	NS	-	-	-	-	-	NS	-
Styrene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Tetrachloroethene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Toluene	100	NA	-	NS	NS	1.8	0.40 J	3.4	-	0.54 J	NS	1.1
trans-1,2-Dichloroethene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
trans-1,3-Dichloropropene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Trichloroethene	NA	NA	-	NS	NS	-	-	-	-	-	NS	-
Vinyl Chloride	NA	NA	-	NS	NS	-	-	-	-	-	NS	-

See notes on page 3.

Table 5
Summary of Volatile Organic Compounds Analytical Results for Surface-Water Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.	NYS TOGS 1.1.1	Federal WQCs	Wetland C-1									
Date Sampled			06/01/15	05/25/16	06/22/17	05/29/18	06/05/19	05/28/20	05/12/21	05/03/22	10/11/23	05/23/24
Volatiles												
1,1,1-Trichloroethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
1,1,2-Trichloroethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
1,1-Dichloroethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
1,1-Dichloroethene	NA	NA	-	-	NS	-	-	-	-	-	-	-
1,2-Dichloroethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
1,2-Dichloropropane	NA	NA	-	-	NS	-	-	-	-	-	-	-
2-Butanone (MEK)	NA	NA	-	-	NS	-	-	-	-	-	-	-
2-Hexanone	NA	NA	-	-	NS	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (MIBK)	NA	NA	-	-	NS	-	-	-	-	-	-	-
Acetone	NA	NA	-	4.0 J	NS	3.6 J	3.0 J	2.9 J	-	7.3	-	-
Benzene	210	NA	-	-	NS	-	-	-	-	-	-	-
Bromodichloromethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
Bromoform	NA	NA	-	-	NS	-	-	-	-	-	-	-
Bromomethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
Carbon Disulfide	NA	NA	-	-	NS	-	-	-	-	-	-	-
Carbon Tetrachloride	NA	NA	-	-	NS	-	-	-	-	-	-	-
Chlorobenzene	5	NA	-	-	NS	-	-	-	-	-	-	-
Chloroethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
Chloroform	NA	NA	-	0.51 J	NS	-	0.56 J	-	-	-	-	-
Chloromethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	NA	NA	-	-	NS	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	NA	NA	-	-	NS	-	-	-	-	-	-	-
Dibromochloromethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
Dichloromethane	NA	NA	-	-	NS	-	-	-	-	-	-	-
Ethylbenzene	17	NA	-	-	NS	-	-	-	-	-	-	-
M,P-Xylenes	65 [1]	NA	-	-	NS	-	-	-	-	-	-	-
O-Xylene	65 [1]	NA	-	-	NS	-	-	-	-	-	-	-
Styrene	NA	NA	-	-	NS	-	-	-	-	-	-	-
Tetrachloroethene	NA	NA	-	-	NS	-	-	-	-	-	-	-
Toluene	100	NA	-	-	NS	0.20 J	0.27 J	0.38 J	-	0.20 J	0.62 J	1.2
trans-1,2-Dichloroethene	NA	NA	-	-	NS	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	NA	NA	-	-	NS	-	-	-	-	-	-	-
Trichloroethene	NA	NA	-	-	NS	-	-	-	-	-	-	-
Vinyl Chloride	NA	NA	-	-	NS	-	-	-	-	-	-	-

See notes on page 3.

Table 6
Summary of Inorganic Analytical Results for Surface-Water Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.	NYS TOGS 1.1.1	Federal WQCs	Wetland B-1										
Date Sampled			06/01/15	05/25/16	06/22/17	05/29/18	06/04/19	05/28/20	05/12/21	05/03/22	06/22/22	10/11/23	05/23/24
Inorganics													
Aluminum	100	87	-	NS	NS	1110	744	92.3 J	-	11600	NS	NS	40 J
Antimony	NA	NA	-	NS	NS	-	-	-	-	-	NS	NS	-
Arsenic	150	150	-	NS	NS	-	-	-	-	8.8 J	NS	NS	-
Barium	NA	NA	186	NS	NS	137	41.9	37.9	16.6 J	1590	NS	NS	125
Beryllium	1100	NA	-	NS	NS	-	-	-	-	0.600 J	NS	NS	-
Cadmium[1,2]	4.4	0.25	-	NS	NS	-	-	-	-	1.4 J	NS	NS	0.4 J
Calcium	NA	NA	24600	NS	NS	52000	27200	37700	42700	115000	NS	NS	36900
Chromium[1,2,3]	161.2	74	-	NS	NS	-	-	-	-	13.2	NS	NS	-
Cobalt	5	NA	-	NS	NS	-	-	1.1 J	-	10.3 J	NS	NS	2 J
Copper[1,2]	20	9	-	NS	NS	-	-	-	-	38.1	NS	NS	-
Iron	300	1000	413	NS	NS	12500	2790	2420	250	62400	NS	NS	3880
Lead[1,2]	3	2.5	-	NS	NS	-	-	-	-	91.3	NS	NS	-
Magnesium	NA	NA	14900	NS	NS	19100	15200	16700	16500	34200	NS	NS	20100
Manganese	NA	NA	194	NS	NS	2850	1240	1160	70.8	5280	NS	NS	11400
Mercury	0.77	0.77	-	NS	NS	-	-	-	-	0.105 J	NS	NS	-
Nickel[1,2]	116	52	-	NS	NS	-	-	-	-	21.0 J	NS	NS	-
Potassium	NA	NA	6890	NS	NS	-	-	2370	2840	6640	NS	NS	4700
Selenium	4.6	5	-	NS	NS	-	-	-	-	-	NS	NS	-
Silver	0.1	NA	-	NS	NS	-	-	-	-	-	NS	NS	-
Sodium	NA	NA	1280	NS	NS	1860	1560	1980	2130	2900	NS	NS	1800
Thallium	8	NA	-	NS	NS	-	-	-	-	-	NS	NS	10
Vanadium	14	NA	-	NS	NS	-	-	-	-	24.0 J	NS	NS	-
Zinc[1,4]	185	120	-	NS	NS	72	-	-	-	591	NS	NS	16 J

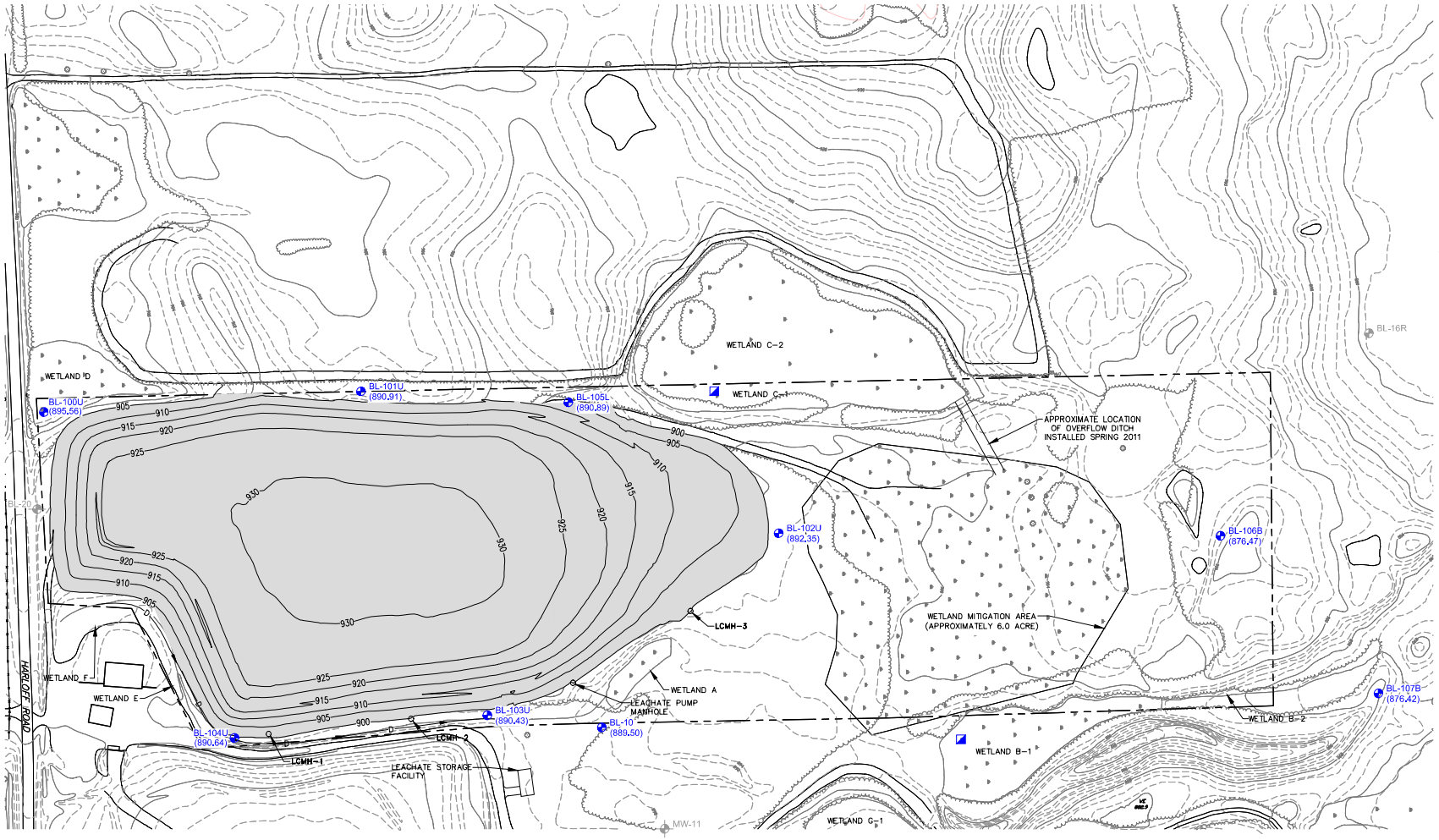
See notes on page 3.

Table 6
Summary of Inorganic Analytical Results for Surface-Water Samples
2024 Groundwater and Surface-Water Sampling and Analysis Report
Batavia Landfill Superfund Site
Batavia, New York

Well I.D.	NYS TOGS 1.1.1	Federal WQCs	Wetland C-1										
Date Sampled			06/01/15	05/25/16	06/22/17	05/29/18	06/05/19	05/28/20	05/12/21	05/03/22	06/22/22	10/11/23	05/23/24
Inorganics													
Aluminum	100	87	143	-	NS	3730	-	117	1260	29400	119	90 J	2860
Antimony	NA	NA	-	-	NS	-	-	-	-	-	-	-	-
Arsenic	150	150	-	-	NS	-	-	-	-	6.5 J	-	-	-
Barium	NA	NA	21.2	32.9	NS	45.6	26.5	25.6	24.3	345	103	21	49
Beryllium	1100	NA	-	-	NS	-	-	-	-	1.8 J	-	-	-
Cadmium[1,2]	4.4	0.25	-	-	NS	-	-	-	-	1.8 J	-	-	-
Calcium	NA	NA	35600	32800	NS	51900	46800	29200	31700	109000	39000	49000	45700
Chromium[1,2,3]	161.2	74	-	-	NS	-	-	-	1.2 J	25.8	-	-	4 J
Cobalt	5	NA	-	-	NS	-	-	-	-	16.8 J	-	-	1 J
Copper[1,2]	20	9	-	-	NS	-	-	-	-	55.7	-	-	-
Iron	300	1000	1330	1340	NS	4090	785	1230	1500	36700	3310	960	3740
Lead[1,2]	3	2.5	-	-	NS	6.4	-	-	-	71.5	-	-	4.7 J
Magnesium	NA	NA	13600	19300	NS	21300	18000	17000	16100	37900	20700	18700	16400
Manganese	NA	NA	91.8	88.3	NS	329	338	477	91.8	3370	491	133	657
Mercury	0.77	0.77	-	-	NS	-	-	-	-	0.099 J	-	-	-
Nickel[1,2]	116	52	-	-	NS	-	-	-	-	20.3 J	-	-	-
Potassium	NA	NA	2870	5050	NS	3290	2650	1590 J	1450 J	9220	3130	4700	3900
Selenium	4.6	5	-	-	NS	-	-	-	-	-	-	-	-
Silver	0.1	NA	-	-	NS	-	-	-	-	-	-	-	-
Sodium	NA	NA	1690	3550	NS	2730	2410	2040	2410	3520	2930	3700	3400
Thallium	8	NA	-	-	NS	-	-	-	-	-	-	-	-
Vanadium	14	NA	-	-	NS	-	-	-	2.1 J	59.5	-	-	5 J
Zinc[1,4]	185	120	-	-	NS	34.4	-	-	12.0 J	889	7.7 J	6 J	44

See notes on page 3.

Figure



LEGEND:

- APPROXIMATE PROPERTY LINE
- APPROXIMATE LIMIT OF EXISTING WASTE
- 920 INDEX ELEVATION CONTOUR
- 922 INTERMEDIATE ELEVATION CONTOUR
- CHANGE-IN-GRADE
- APPROXIMATE AREA OF FINAL COVER SYSTEM
- O LCMH-3 LEACHATE COLLECTION MANHOLE
- D DRAINAGE DITCH
- SURFACE WATER SAMPLING LOCATION
- GROUNDWATER MONITORING WELL
- EXISTING WELL (SEE NOTE 5)
- (890.89) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

NOTES:

1. BASE MAP INFORMATION PREPARED BY LOCKWOOD MAPPING AND IS BASED ON AERIAL PHOTOGRAPHY OF THE SITE TAKEN IN MARCH 1996, AND A FIELD SURVEY COMPLETED BY WENDEL IN MAY 1996.
2. REFER TO DRAWING NO. 12 FOR LEACHATE COLLECTION SYSTEM INFORMATION
3. CONTOUR INTERVAL EQUALS 2 FEET.
4. CONTOURS REPRESENT TOP OF FINAL COVER SYSTEM.
5. EXISTING WELL RETAINED AT REQUEST OF NYSDEC, NOT INCLUDED IN SITE GROUNDWATER MONITORING PLAN

0 100' 200'
GRAPHIC SCALE

BATAVIA LANDFILL SUPERFUND SITE
TOWN OF BATAVIA, NEW YORK
GROUNDWATER AND SURFACE WATER SAMPLING AND ANALYSIS REPORT

MONITORING WELL NETWORK WITH GROUNDWATER ELEVATIONS (UPPER SAND) MAY 23, 2024

ARCADIS

FIGURE 1

Appendix A

March 29, 2007 USEPA Comment Letter on Proposed Environmental Monitoring Plan Modifications

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

MAR 27 2007

Joseph Molina III, P.E.
Project Coordinator
Blasland, Bouck and Lee, Inc.
295 Woodcliff Drive,
3rd Floor, Suite 301
Fairport, NY 14450

Re: Technical Review of Proposed Modification to the Environmental Monitoring Plan for the Batavia Landfill Site, Genesee County, New York; Consent Decree Civil Action No.: 00-0838-SR.

Dear Mr. Molina:

The United States Environmental Protection Agency ("EPA") has completed a review on your recommended changes to the Environmental Monitoring Plan (EMP) for the Batavia Landfill Superfund Site ("Site"). The request to reduce the parameters sampled for was based on the results from the monitoring information obtained during the first three years of the operation of the landfill cap system. While it is encouraging that the monitoring data so far indicates that the landfill cap system is effective in containing the contamination, the purpose of the monitoring system also serves to ensure the long-term effectiveness of the site remedy in place over the functional life of the landfill cap. Consequently, the majority of your recommended changes to the EMP cannot be incorporated at this time. The following are our comments:

1. Monitoring wells MW-5, MW-11 and BL-20 are located in the area south of the landfill that historically detected the highest levels of VOCs. In addition, the September 2005 Five Year Review for the Site included the comment that the groundwater monitoring system should be optimized so that at least one well each in the respective upper and lower soil units be sampled. A sampling exercise for these wells must be conducted before a final decision to decommission them can be considered.

2. Monitoring well BL-16R can be decommissioned since it has consistently shown no level of contaminants above Federal or State Drinking Water Standards and also since the Village of Oakfield Wells, located 3/4 of a mile to the north the landfill, are no longer in public use.

3. Discontinuing to the reporting of the VOC analyses for monitoring well BL-105L diminishes the ability to monitor the remedy effectiveness along the western region of the landfill cap. However, the VOC analyses for monitoring well BL-107B can be dropped.

If there are any questions, please contact Michael Walters of my staff at (212) 637-4279.

Sincerely yours,

Kevin Lynch, Chief
Western New York Remediation Section

cc: Beverly Kolenberg, EPA-ORC
David Pratt, NYSDEC
Leslie Greenbaum, Gross Shuman Brizdle & Gilfillan
Greg Post, Town of Batavia
Len Walker, City of Batavia

Appendix B

Field Sampling Logs

Batavia Landfill - Batavia, New York — **LOW-FLOW SAMPLING PROGRAM**

Site — *Event: May 2024 Groundwater Sampling*

GROUNDWATER SAMPLING LOG

Sampling Personnel: ~~Bailey Kudla-Williams~~/Kaitlyn Fleming
Job Number: 30169107
Weather: 75°F, sun

Well ID. BL-10
Date: 5-23-2024
Time In: 1325 Time Out: 1510

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth 21.34	(feet)	X		
Water Table Depth 5.31	(feet)	X		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☐ No ☒
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column: 15.53 (feet)	0
Volume of Water in Well: 2.53 (gal)	0
Pumping Rate of Pump: 160 (mL/min)	
Pumping Rate of Pump: 0.04 (GPM)	
Minutes of Pumping: 80	
Total Volume Removed: 2.25 (gal)	

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Pump on at 1335
Pump off at 1455

SAMPLING INFORMATION

Analyses:
TCL VOCs (40 ml vials) ■
TAL Metals (125 mL poly) ■
PFAS (2x250 mL poly) ☐
1,4-Dioxane (2x250 mL amber) ☐
☐

Sample ID: BL-10
Sample Time: 1440
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☒ No ☐
DUP-052324
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Penstaltic ☐	
Tubing Used:	Dedicated ☒	Deconned ☐		Type	LDPE
Sampling Method	Bailer ☐	~~Grundfos~~ Pump ☐		Other Pump ☐	
Did well go dry?	Yes ☐	~~Bladder~~ No ☒			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 1335 Initial	2 1340	3 1345	4 1350	5 1355	6 1400	7 1405	8 1410	9 1415
Volume Purged (gal)	Pump		0.5		1.0		1.25		1.85
Depth to Water (ft. TIC)	on	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86
Temp (°C)	|	12.6	12.0	11.9	11.8	11.7	11.9	166	11.7
DO (mg/L)	|	1.32	1.14	0.89	0.74	0.59	0.53	0.49	0.44
Conductance (mS/cm)	|	1.86	1.99	2.02	2.03	2.04	2.04	2.04	2.04
pH	|	6.82	6.76	6.65	6.65	6.56	6.60	6.62	6.61
ORP (mV)	|	-40.6	-44.0	-45.7	-46.8	-47.5	-47.9	-47.8	-48.2
Turbidity	|	59.9	71.5	32.2	27.3	23.5	15.5	8.84	7.16

Time / Parameter	10 1420	11 1425	12 1430	13 1435	14 1440	15	16	17	18
Volume Purged (gal)			2.0		2.25				
Depth to Water (ft. TIC)	5.86	5.86	5.86	5.86	S				
Temp (°C)	11.9	11.7	11.7	11.8	A				
DO (mg/L)	0.45	0.42	0.41	0.38	m				
Conductance (mS/cm)	2.03	2.03	2.03	2.03	P				
pH	6.64	6.60	6.63	6.59	E				
ORP (mV)	-48.3	-48.3	-48.1	-48.4	L				
Turbidity	6.88	4.88	4.99	4.85	D				

SAMPLE DESTINATION

Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS

Sample was ☒ shipped day of sampling ☒ sent on 5-24-2024

Chain of Custody Signed By: BKW

Batavia Landfill - Batavia, New York
Site

LOW-FLOW SAMPLING PROGRAM
Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams/Kaitlyn Fleming
Job Number: 30169107
Weather: 65°F, Sun

Well ID. BL-100U
Date: 5-23-2024
Time In: 0830 Time Out: 1000

WELL INFORMATION (record from top of inner casing at minimum)

			TIC	TOC	BGS
Well Depth	20.31	(feet)	X		
Water Table Depth	4.93	(feet)	X		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	15.38 (feet)	-0-
Volume of Water in Well:	2.51 (gal)	-0-
Pumping Rate of Pump:	380 (mL/min)	
Pumping Rate of Pump:	0.1 (GPM)	
Minutes of Pumping:	65	
Total Volume Removed:	5.0 (gal)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

Pump on at: 0845 -orange colored

Pump off at: 0950

SAMPLING INFORMATION

Analyses:
TCL VOCs (40 ml vials) ■
TAL Metals (125 mL poly) ■
PFAS (2x250 mL poly) ☐
1,4-Dioxane (2x250 mL amber) ☐
☐

Sample ID: BL-100U
Sample Time: 0945
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Grundfos Pump ☐	Peristaltic ☐	Bladder
Tubing Used:	Dedicated ☒	Deconned ☐	Type	LDPE
Sampling Method	Bailer ☐	Grunfos Pump ☐	Other Pump ☐	Bladder
Did well go dry?	Yes ☐	No ☒		

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 0845 Initial	2 0850	3 0855	4	5 0910	6 0915	7 0920	8 0925	9 0930
Volume Purged (gal)	Pump		0.75	un-did	1.75	2.0	2.5	3.0	3.5
Depth to Water (ft. TIC)	on	4.91	4.91	flow-thru	4.99	4.99	4.99	4.99	4.99
Temp (°C)	|	11.1	12.2	cell to	10.2	10.2	10.1	10.2	10.2
DO (mg/L)	|	3.69	2.18	purge	0.76	0.64	0.54	0.49	0.46
Conductance (mS/cm)	|	4.25	4.30	and allow	4.28	4.28	4.26	4.25	4.23
pH	|	6.91	7.07	turb to	6.97	6.97	6.97	6.96	6.95
ORP (mV)	|	-61.8	-68.8	drop.	-79.2	-84.8	-88.8	-90.0	-91.1
Turbidity	|	1041	987	—	81.4	38.3	32.4	30.5	24.7

Time / Parameter	10 0935	11 0940	12 0945	13	14	15	16	17	18
Volume Purged (gal)	4.0	4.5	5.0						
Depth to Water (ft. TIC)	4.99	4.99	S						
Temp (°C)	10.2	10.1	A						
DO (mg/L)	0.44	0.39	M						
Conductance (mS/cm)	4.22	4.21	P						
pH	6.95	6.95	L						
ORP (mV)	-90.4	-91.8	E						
Turbidity	24.8	24.0	D						

SAMPLE DESTINATION
Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS
Sample was ☒ shipped day of sampling ☒ sent on 5-24-2024
Chain of Custody Signed By: BKW

Batavia Landfill - Batavia, New York — **LOW-FLOW SAMPLING PROGRAM**

Site — *Event: May 2024 Groundwater Sampling*

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams/~~Kaitlyn Fleming~~
Job Number: 30169107
Weather: Sunny, 62°

Well ID. BL-101U
Date: 5/23/2024
Time In: 0830 Time Out: 1035

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth	(feet)		30.12	
Water Table Depth	(feet)		17.39	

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	(feet)	@ 12.73
Volume of Water in Well:	(gal)	@ 2.07
Pumping Rate of Pump:	(mL/min)	150
Pumping Rate of Pump:	(GPM)	—
Minutes of Pumping:		110
Total Volume Removed:	(gal)	2.5

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Pump on @ 0840
Pump off @ 1030

SAMPLING INFORMATION

Analyses:
TCL VOCs (40 ml vials) ■
TAL Metals (125 mL poly) ■
PFAS (2x250 mL poly) ☐
1,4-Dioxane (2x250 mL amber) ☐
☐

Sample ID: BL-101U
Sample Time: 1020
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer	☐	~~Grundfos~~ Bladder Pump	☒	Peristaltic	☐
Tubing Used:	Dedicated	☒	Deconned	☐	Type	LDPE
Sampling Method	Bailer	☐	~~Grundfos~~ Bladder Pump	☒	Other Pump	☐
Did well go dry?	Yes	☐	No	☒		

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 0920 Initial	2 0925	3 0930	4 0935	5 0940	6 0945	7 0950	8 0955	9 1000
Volume Purged (gal)	1.0				1.5				2.0
Depth to Water (ft. TIC)	17.44	17.44	17.44	17.44	17.44	17.44	17.44	17.44	17.44
Temp (°C)	11.3	11.4	11.3	11.3	11.3	11.4	11.4	11.4	11.4
DO (mg/L)	1.22	0.57	0.42	0.30	0.25	0.21	0.19	0.15	0.15
Conductance (mS/cm)	1.20	1.20	1.19	1.19	1.18	1.18	1.17	1.17	1.17
pH	6.94	6.99	7.04	7.04	7.06	7.08	7.08	7.09	7.09
ORP (mV)	-363.9	-399.1	-416.5	-428.9	-438.9	-454.4	-458.9	-462.8	-468.7
Turbidity	100.7	83.2	78.4	70.7	64.2	58.7	54.0	52.6	49.6

Time / Parameter	10 1005	11 1010	12 1015	13 1020	14	15	16	17	18
Volume Purged (gal)			2.5	SAMPLE					
Depth to Water (ft. TIC)	17.44	17.44	17.44						
Temp (°C)	11.6	11.5	11.5						
DO (mg/L)	0.13	0.12	0.11						
Conductance (mS/cm)	1.17	1.16	1.16						
pH	7.09	7.10	7.09						
ORP (mV)	-477.6	-480.1	-474.1						
Turbidity	46.4	44.7	45.3						

SAMPLE DESTINATION
Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS
Sample was ☐ shipped day of sampling ☒ sent on 5/24/24
Chain of Custody Signed By: ~~AKF~~ BKW

Batavia Landfill - Batavia, New York
Site

LOW-FLOW SAMPLING PROGRAM
Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams (Kaitlyn Fleming)
Job Number: 30169107
Weather: Sunny, 73°

Well ID: BL-102U
Date: 5/23/2024
Time In: 1040 Time Out: 1225

WELL INFORMATION *(record from top of inner casing at minimum)*

		TIC	TOC	BGS
Well Depth	(feet)		26.90	
Water Table Depth	(feet)		8.66	

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	(feet)	17.74
Volume of Water in Well:	(gal)	2.89
Pumping Rate of Pump:	(mL/min)	150
Pumping Rate of Pump:	(GPM)	—
Minutes of Pumping:		90
Total Volume Removed:	(gal)	3.0

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Pump on @ 1050
Pump off @ 1220

SAMPLING INFORMATION

Analyses:
TCL VOCs (40 ml vials) ■
TAL Metals (125 mL poly) ■
PFAS (2x250 mL poly) ☐
1,4-Dioxane (2x250 mL amber) ☐
☐

Sample ID: BL-102U
Sample Time: 1215
MS/MSD Yes ☐ No ☒
Duplicate Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Peristaltic ☐	
Tubing Used	Dedicated ☒	Deconned ☐		Type	LDPE
Sampling Method	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Other Pump ☐	
Did well go dry?	Yes ☐	No ☒			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 1110 Initial	2 1115	3 1120	4 1125	5 1130	6 1135	7 1140	8 1145	9 1150
Volume Purged (gal)	1.0			1.5			2.0		
Depth to Water (ft. TIC)	9.12	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16
Temp (°C)	11.7	11.8	11.5	11.8	11.8	11.7	11.7	11.8	11.5
DO (mg/L)	0.32	0.24	0.17	0.13	0.09	0.08	0.06	0.05	0.04
Conductance (mS/cm)	0.67	0.668	0.663	0.663	0.662	0.663	0.659	0.663	0.663
pH	6.73	6.74	6.77	6.77	6.79	6.78	6.79	6.82	6.79
ORP (mV)	-289.9	-339.9	-381.4	-398.5	-423.3	-437.2	-456.7	-474.4	-483.8
Turbidity	65.2	50.6	38.9	35.4	32.5	31.4	30.1	28.2	28.4

Time / Parameter	10 1155	11 1200	12 1205	13 1210	14 1215	15	16	17	18
Volume Purged (gal)	2.5			3.0	S				
Depth to Water (ft. TIC)	9.16	9.16	9.16	9.16	A				
Temp (°C)	11.8	11.8	11.6	11.8	M				
DO (mg/L)	0.04	0.04	0.003	0.002	P				
Conductance (mS/cm)	0.664	0.663	0.664	0.662	L				
pH	6.81	6.80	6.81	6.81	E				
ORP (mV)	-492.4	-506.2	-506.0	-509.6					
Turbidity	28.2	20.3	20.7	20.4	↓				

SAMPLE DESTINATION
Laboratory Shipped Via: ALS Environmental
☐ Federal Express Other: ARCADIS
Sample was ☐ shipped day of sampling ☒ sent on 5/24/24
Chain of Custody Signed By: ~~KKF~~ BKW

Batavia Landfill - Batavia, New York
Site

LOW-FLOW SAMPLING PROGRAM
Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams (Kaitlyn Fleming)
Job Number: 30169107
Weather: Sunny, 75°

Well ID: BL-103U
Date: 5/23/2024
Time In: 1240 Time Out: 1400

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth	(feet)	←	19.87	
Water Table Depth	(feet)	←	9.86	

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	(feet)	10.01
Volume of Water in Well:	(gal)	1.63
Pumping Rate of Pump:	(mL/min)	150
Pumping Rate of Pump:	(GPM)	—
Minutes of Pumping:		65
Total Volume Removed:	(gal)	2.5

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Pump on @ 1245

Pump off @ 1355

SAMPLING INFORMATION

Analyses:
TCL VOCs (40 ml vials) ■
TAL Metals (125 mL poly) ■
PFAS (2x250 mL poly) ☐
1,4-Dioxane (2x250 mL amber) ☐
☐

Sample ID: BL-103U
Sample Time: 1350
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method	Bailer ☐	~~Grundfos~~ Bladder Pump	☒	Peristaltic	☐
Tubing Used	Dedicated ☒	Deconned	☐	Type	LDPE
Sampling Method	Bailer ☐	~~Grundfos~~ Bladder Pump	☒	Other Pump	☐
Did well go dry?	Yes ☐	No	☐		

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 1250 Initial	2 1255	3 1300	4 1305	5 1310	6 1315	7 1320	8 1325	9 1330
Volume Purged (gal)		0.5			1.0			1.5	
Depth to Water (ft. TIC)	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11
Temp (°C)	13.3	13.2	12.8	12.8	12.9	12.5	12.5	12.6	12.6
DO (mg/L)	1.50	0.49	0.39	0.27	0.23	0.19	0.15	0.18	0.16
Conductance (mS/cm)	0.93	0.92	0.93	0.93	0.93	0.93	0.93	0.94	0.94
pH	7.03	6.95	6.90	6.85	6.85	6.84	6.84	6.84	6.84
ORP (mV)	-101.2	-265.1	-334.9	-370.1	-389.5	-410.1	-423.4	-437.4	-441.8
Turbidity	12.8	12.0	9.02	7.17	6.27	6.06	5.89	5.36	5.61

Time / Parameter	10 1335	11 1340	12 1345	13 1350	14	15	16	17	18
Volume Purged (gal)		2.0		S					
Depth to Water (ft. TIC)	10.11	10.11	10.11	A					
Temp (°C)	12.6	12.6	12.7	M					
DO (mg/L)	0.12	0.14	0.16	P					
Conductance (mS/cm)	0.94	0.94	0.94	L					
pH	6.83	6.83	6.83	E					
ORP (mV)	-458.1	-461.4	-460.2						
Turbidity	5.33	5.45	5.82	↓					

SAMPLE DESTINATION
Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS
Sample was: ☐ shipped day of sampling ☒ sent on 5/24/24
Chain of Custody Signed By: ~~KKF~~ BKW

Batavia Landfill - Batavia, New York — **LOW-FLOW SAMPLING PROGRAM**

Site — *Event: May 2024 Groundwater Sampling*

GROUNDWATER SAMPLING LOG

Sampling Personnel: ~~Bailey Kudla-Williams~~/Kaitlyn Fleming
Job Number: 30169107
Weather: 75°F, Sun

Well ID: BL-104U
Date: 5-23-2024
Time In: 1200 Time Out: 1315

WELL INFORMATION (record from top of inner casing at minimum)

			TIC	TOC	BGS
Well Depth	17.31	(feet)	X		
Water Table Depth	10.43	(feet)	X		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	6.88 (feet)	~~0~~
Volume of Water in Well:	1.12 (gal)	~~0~~
Pumping Rate of Pump:	~~200~~ (mL/min)	160
Pumping Rate of Pump:	0.04 (GPM)	
Minutes of Pumping:	44	
Total Volume Removed:	1.5 (gal)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Pump on at 1215

Pump off at 1259

SAMPLING INFORMATION

Analyses:
TCL VOCs (40 ml vials) ■
TAL Metals (125 mL poly) ■
PFAS (2x250 mL poly) ☐
1,4-Dioxane (2x250 mL amber) ☐ ☐

Sample ID: BL-104U
Sample Time: 1255
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	~~Grundfos Pump~~ Bladder	☒	Peristaltic	☐	
Tubing Used:	Dedicated ☒	Deconned	☐	Type		LDPE
Sampling Method	Bailer ☐	~~Grundfos Pump~~ Bladder	☐	Other Pump	☐	
Did well go dry?	Yes ☐	No	☐			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 1215 Initial	2 1220	3 1225	4 1230	5 1235	6 1240	7 1245	8 1250	9 1255
Volume Purged (gal)	Pump		0.5		0.75		1.0		1.5
Depth to Water (ft. TIC)	on	10.46	10.46	10.46	10.46	10.48	10.48	10.48	S
Temp (°C)	|	12.6	15.2	12.0	11.4	11.5	11.6	11.5	A
DO (mg/L)	|	2.27	1.22	0.83	0.60	0.48	0.38	0.40	M
Conductance (mS/cm)	|	2.40	2.40	2.43	2.42	2.42	2.42	2.41	P
pH	|	6.54	6.40	6.39	6.34	6.33	6.34	6.32	L
ORP (mV)	|	-21.6	-28.3	-26.7	-27.6	-28.6	-29.2	-29.6	E
Turbidity	|	25.2	18.1	6.27	3.26	3.67	3.56	2.10	D

Time / Parameter	10	11	12	13	14	15	16	17	18
Volume Purged (gal)									
Depth to Water (ft. TIC)									
Temp (°C)									
DO (mg/L)									
Conductance (mS/cm)									
pH									
ORP (mV)									
Turbidity									

SAMPLE DESTINATION
Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS
Sample was ☐ shipped day of sampling ☒ sent on 5-24-2024
Chain of Custody Signed By: BKW

Batavia Landfill - Batavia, New York — Site

LOW-FLOW SAMPLING PROGRAM

Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: ~~Bailey Kudla-Williams~~/Kaitlyn Fleming
Job Number: 30169107
Weather: 75°F, Sun

Well ID: BL-105L
Date: 5-23-2024
Time In: 1035 Time Out: 1150

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth	26.59 (feet)	X		
Water Table Depth	19.79 (feet)	X		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	6.8 (feet)	~~0~~
Volume of Water in Well:	1.11 (gal)	~~0~~
Pumping Rate of Pump:	120 (mL/min)	
Pumping Rate of Pump:	0.03 (GPM)	
Minutes of Pumping:	48	
Total Volume Removed:	0.85 (gal)	

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Pump on at 1050
Pump off at 1138

SAMPLING INFORMATION

Analyses:
- TCL VOCs (40 ml vials) ■
- TAL Metals (125 mL poly) ■
- PFAS (2x250 mL poly) ☐
- 1,4-Dioxane (2x250 mL amber) ☐
- ☐

Sample ID: BL-105L
Sample Time: 1130
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Peristaltic ☐	
Tubing Used:	Dedicated ☒	Deconned ☐		Type	LDPE
Sampling Method	Bailer ☐	~~Grundfos~~ Bladder Pump ☐		Other Pump ☐	
Did well go dry?	Yes ☐	No ☐			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 1050 Initial	2 1105	3 1110	4 1115	5 1120	6 1125	7 1130	8	9
Volume Purged (gal)	Pump			0.5		0.75	S		
Depth to Water (ft. TIC)	on	19.99	19.92	19.93	19.93	19.93	A		
Temp (°C)	|	13.1	14.2	14.4	14.1	14.5	m		
DO (mg/L)	|	1.42	1.27	1.24	1.22	1.17	P		
Conductance (mS/cm)	|	0.98	0.96	0.95	0.96	0.95	L		
pH	|	6.78	6.79	6.80	6.79	6.80	E		
ORP (mV)	|	-78.6	-76.0	-68.2	-64.7	-61.2	D		
Turbidity	|	7.19	5.61	5.98	5.92	6.05	✓		

Time / Parameter	10	11	12	13	14	15	16	17	18
Volume Purged (gal)									
Depth to Water (ft. TIC)									
Temp (°C)									
DO (mg/L)									
Conductance (mS/cm)									
pH									
ORP (mV)									
Turbidity									

SAMPLE DESTINATION

Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS
Sample was ☐ shipped day of sampling ☒ sent on 5-24-2024
Chain of Custody Signed By: BKW

Batavia Landfill - Batavia, New York — Site

LOW-FLOW SAMPLING PROGRAM

Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams/Kaitlyn Fleming
Job Number: 30189107
Weather: 68°F, sun

Well ID: BL-106B
Date: 5-24-2024
Time In: 0845 Time Out: 1040

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth 94.90	(feet)	X		
Water Table Depth 34.05	(feet)	X		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☐ No ☒
Well Diameter: 1" ☐ 2" ☐ 4" ☒

WELL WATER INFORMATION

Length of Water Column: 60.85 (feet)	~~0~~
Volume of Water in Well: 40.16 (gal)	~~0~~
Pumping Rate of Pump: 150 (mL/min)	
Pumping Rate of Pump: 0.04 (GPM)	
Minutes of Pumping: 70	
Total Volume Removed: 1.65 (gal)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Pump on at 0915
Pump off at 1025

SAMPLING INFORMATION

Analyses:
- TCL VOCs (40 ml vials) ■
- TAL Metals (125 mL poly) ■
- PFAS (2x250 mL poly) ☐
- 1,4-Dioxane (2x250 mL amber) ☐
- ☐

Sample ID: BL-106B
Sample Time: 1020
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Peristaltic ☐	
Tubing Used:	Dedicated ☒	Deconned ☐		Type	LDPE
Sampling Method	Bailer ☐	~~Grundfos~~ Pump ☒		Other Pump ☐	
Did well go dry?	Yes ☐	~~Bladder~~ No ☒			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 0935 Initial	2 0940	3 0945	4 0950	5 0955	6 1000	7 1005	8 1010	9 1015
Volume Purged (gal)	0.5		0.75		1.0		1.25		1.5
Depth to Water (ft. TIC)	34.06	34.06	34.06	34.06	34.06	34.06	34.06	34.06	34.06
Temp (°C)	11.7	11.5	10.8	10.6	10.8	10.8	10.7	10.6	10.8
DO (mg/L)	3.07	1.38	1.02	0.83	0.74	0.67	0.62	0.59	0.56
Conductance (mS/cm)	1.24	1.23	1.23	1.23	1.22	1.22	1.22	1.22	1.22
pH	7.00	6.95	6.97	6.99	6.98	6.98	6.99	6.99	7.00
ORP (mV)	-68.1	-69.9	-70.9	-72.5	-73.7	-74.1	-74.4	-74.7	-75.2
Turbidity	8.19	7.14	7.78	7.38	6.51	6.33	5.85	5.24	5.24

Time / Parameter	10 1020	11	12	13	14	15	16	17	18
Volume Purged (gal)	S								
Depth to Water (ft. TIC)	A								
Temp (°C)	M								
DO (mg/L)	P								
Conductance (mS/cm)	L								
pH	E								
ORP (mV)	D								
Turbidity	—								

SAMPLE DESTINATION

Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other ARCADIS
Sample was ☐ shipped day of sampling ☒ sent on 5-24-2024
Chain of Custody Signed By: BKW

Pump settings: fill - 9sec
discharge - 6 sec
65psi

Batavia Landfill - Batavia, New York — Site

LOW-FLOW SAMPLING PROGRAM

Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams, ~~Kaitlyn Fleming~~ KCF
Job Number: 30169107
Weather: Sunny, 70°

Well ID. BL-107B
Date: 5/24/2024
Time In: 0840 Time Out: 1045

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth	(feet)		14.31	
Water Table Depth	(feet)		7.25	

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ KCF 4" ☒

WELL WATER INFORMATION

Length of Water Column:	(feet)	56.94
Volume of Water in Well:	(gal)	9.28
Pumping Rate of Pump:	(mL/min)	150
Pumping Rate of Pump:	(GPM)	—
Minutes of Pumping:		100
Total Volume Removed:	(gal)	2.7

Conversion Factors

gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column:	0.094	0.16	0.66	1.5

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

Pump on @ 0855
Pump off @ 1035

SAMPLING INFORMATION

Analyses:
- TCL VOCs (40 ml vials) ■
- TAL Metals (125 mL poly) ■
- PFAS (2x250 mL poly) ☐
- 1,4-Dioxane (2x250 mL amber) ☐
- ☐

Sample ID: BL-107B
Sample Time: 1030
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Peristaltic ☐	
Tubing Used:	Dedicated ☒	Deconned ☐		Type	LDPE
Sampling Method	Bailer ☐	~~Grundfos~~ Bladder Pump ☒		Other Pump ☐	
Did well go dry?	Yes ☐	No ☒			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 0905 Initial	2 0910	3 0915	4 0920	5 0925	6 0930	7 0935	8 0940	9 0945
Volume Purged (gal)				0.5			1.0		
Depth to Water (ft. TIC)	14.35	14.35	14.35	14.35	14.35	14.35	14.35	14.35	14.35
Temp (°C)	9.8	9.8	9.7	9.7	9.7	9.7	9.7	9.8	9.8
DO (mg/L)	0.82	0.49	0.35	0.31	0.27	0.25	0.23	0.20	0.20
Conductance (mS/cm)	1.55	1.60	1.61	1.61	1.62	1.63	1.62	1.62	1.61
pH	7.17	7.16	7.15	7.16	7.20	7.23	7.25	7.26	7.27
ORP (mV)	-133.2	-169.6	-178.2	-185.2	-197.2	-215.3	-237.9	-263.0	-282.3
Turbidity	17.4	12.3	11.2	9.00	8.53	7.11	6.90	5.58	4.75

Time / Parameter	10 0950	11 0955	12 1000	13 1005	14 1010	15 1015	16 1020	17 1025	18 1030
Volume Purged (gal)	1.5			2.0			2.5		5
Depth to Water (ft. TIC)	14.35	14.35	14.35	14.35	14.35	14.35	14.35	14.35	A
Temp (°C)	9.9	9.8	9.8	9.7	9.7	9.7	9.8	9.9	M
DO (mg/L)	0.17	0.16	0.15	0.15	0.14	0.13	0.13	0.11	P
Conductance (mS/cm)	1.61	1.61	1.62	1.62	1.61	1.61	1.62	1.62	L
pH	7.27	7.27	7.27	7.26	7.26	7.26	7.26	7.26	E
ORP (mV)	-300.3	-314.1	-323.1	-333.4	-341.1	-348.2	-453.7	-357.7	↓
Turbidity	4.22	4.57	4.32	4.74	4.72	4.23	4.18	4.14	

SAMPLE DESTINATION
Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS
Sample was ☐ shipped day of sampling ☒ sent on 5/24/24
Chain of Custody Signed By: ~~KCF~~ BKW

Batavia Landfill - Batavia, New York — *Site*

LOW-FLOW SAMPLING PROGRAM

Event: May 2024 Groundwater Sampling

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams/Kaitlyn Fleming
Job Number: 30169107
Weather: Sunny, 75°

Well ID. WL-B1
Date: 5/23/2024
Time In: Time Out:

WELL INFORMATION *(record from top of inner casing at minimum)*

		TIC	TOC	BGS
Well Depth	(feet)	X	X	X
Water Table Depth	(feet)			

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☐ No ☐
Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	(feet)	0
Volume of Water in Well:	(gal)	0
Pumping Rate of Pump:	(mL/min)	—
Pumping Rate of Pump:	(GPM)	—
Minutes of Pumping:		—
Total Volume Removed:	(gal)	—

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

SAMPLING INFORMATION

Analyses:
- TCL VOCs (40 ml vials) ■
- TAL Metals (125 mL poly) ■
- PFAS (2x250 mL poly) ☐
- 1,4-Dioxane (2x250 mL amber) ☐
- ☐

Sample ID: WL-B1
Sample Time: 1520
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer	☒	Grundfos Pump	☐	Peristaltic	☐
Tubing Used:	Dedicated	☐	Deconned	☐	Type	HDPE
Sampling Method	Bailer	☒	Grunfos Pump	☐	Other Pump	☐
Did well go dry?	Yes	☐	No	☐		

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 Initial	2	3	4	5	6	7	8	9
Volume Purged (gal)	—								
Depth to Water (ft. TIC)	—								
Temp (°C)	23.3								
DO (mg/L)	0.90								
Conductance (mS/cm)	0.368								
pH	7.32								
ORP (mV)	-110.8								
Turbidity	0								

Time / Parameter	10	11	12	13	14	15	16	17	18
Volume Purged (gal)									
Depth to Water (ft. TIC)									
Temp (°C)									
DO (mg/L)									
Conductance (mS/cm)									
pH									
ORP (mV)									
Turbidity									

SAMPLE DESTINATION

Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS

Sample was ☐ shipped day of sampling ☒ sent on _____

Chain of Custody Signed By: ~~KCF~~ BKW

Batavia Landfill - Batavia, New York — **LOW-FLOW SAMPLING PROGRAM**

Site — *Event: May 2024 Groundwater Sampling*

GROUNDWATER SAMPLING LOG

Sampling Personnel: Bailey Kudla-Williams/Kaitlyn Fleming
Job Number: 30169107
Weather: Sunny, 75°

Well ID: WL-C1
Date: 5/23/2024
Time In: Time Out:

WELL INFORMATION (record from top of inner casing at minimum)

		TIC	TOC	BGS
Well Depth	(feet)	X	X	X
Water Table Depth	(feet)			

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☐ No ☐
Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ 4" ☐

WELL WATER INFORMATION

Length of Water Column:	(feet)	0
Volume of Water in Well:	(gal)	0
Pumping Rate of Pump:	(mL/min)	
Pumping Rate of Pump:	(GPM)	
Minutes of Pumping:		
Total Volume Removed:	(gal)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.094	0.16	0.66	1.5

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

SAMPLING INFORMATION

Analyses:
- TCL VOCs (40 ml vials) ■
- TAL Metals (125 mL poly) ■
- PFAS (2x250 mL poly) ☐
- 1,4-Dioxane (2x250 mL amber) ☐
- ☐

Sample ID: WL-C1
Sample Time: 1500
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Total Bottles: 5

EVACUATION INFORMATION

Evacuation Method:	Bailer ☒	Grundfos Pump ☐	Peristaltic ☐		
Tubing Used:	Dedicated ☐	Deconned ☐	Type	HDPE	
Sampling Method	Bailer ☒	Grunfos Pump ☐	Other Pump ☐		
Did well go dry?	Yes ☐	No ☒			

Water Quality Meter Type: YSI and LaMotte 2020

Time / Parameter	1 Initial	2	3	4	5	6	7	8	9
Volume Purged (gal)	—								
Depth to Water (ft. TIC)	—								
Temp (°C)	25.8								
DO (mg/L)	4.31								
Conductance (mS/cm)	0.339								
pH	7.59								
ORP (mV)	-33.8								
Turbidity	0								

Time / Parameter	10	11	12	13	14	15	16	17	18
Volume Purged (gal)									
Depth to Water (ft. TIC)									
Temp (°C)									
DO (mg/L)									
Conductance (mS/cm)									
pH									
ORP (mV)									
Turbidity									

SAMPLE DESTINATION

Laboratory: ALS Environmental
Shipped Via: ☐ Federal Express Other: ARCADIS

Sample was ☐ shipped day of sampling ☒ sent on

Chain of Custody Signed By: ~~JEF~~ BKW

Appendix C

Laboratory Analytical Reports

June 10, 2024 Service Request No:R2404485

Mr. Aaron Richardson
ARCADIS
100 Chestnut St., Suite 100
Rochester, NY 14604

Laboratory Results for: Batavia Landfill

Dear Mr.Richardson,

Enclosed are the results of the sample(s) submitted to our laboratory May 24, 2024
For your reference, these analyses have been assigned our service request number **R2404485.**

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 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2404485
Project: Batavia Landfill **Date Received:** 05/24/2024
Sample Matrix: Water

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.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Fourteen water samples were received for analysis at ALS Environmental on 05/24/2024. 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.

Volatiles by GC/MS:

Method 8260C, 06/04/2024: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 06/10/2024

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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2404485-001	BL-100U	5/23/2024	0945
R2404485-002	BL-101U	5/23/2024	1020
R2404485-003	BL-102U	5/23/2024	1215
R2404485-004	BL-103U	5/23/2024	1350
R2404485-005	BL-104U	5/23/2024	1255
R2404485-006	BL-105L	5/23/2024	1130
R2404485-007	BL-106B	5/24/2024	1020
R2404485-008	BL-107B	5/24/2024	1030
R2404485-009	BL-10	5/23/2024	1440
R2404485-010	FB-052324	5/23/2024	1230
R2404485-011	DUP-052324	5/23/2024	
R2404485-012	WL-B1	5/23/2024	1520
R2404485-013	WL-C1	5/23/2024	1500
R2404485-014	Trip Blank	5/23/2024	

Chain of Custody / Analytical Request Form

74762

SR#:

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Report To:	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER
Company: Arcadis	Project Name: Batavia Landfill
Contact: Aaron Richardson	Project Number:
Email: aaron.richardson@arcadis.com	ALS Quote #:
Phone: 585-202-4393	Sampler's Signature:
Address: 100 Chestnut St #1020	Email CC:
Rochester, NY	Email CC:
	State Samples Collected (Circle or Write): (NY) MA, PA, CT, Other:

Preservative: 1 | 2

Lab ID (ALS)	Sample ID:	Date	Time	Matrix (GW WW SW DW S L NA)	Number of Containers	MS/MSD?	GC/MS VOA (8260) • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Notes:
	BL-100U	5-23-2024	0945	GW	5		X					X		
	BL-101U	5-23-2024	1020	GW	5		X					X		
	BL-102U	5-23-2024	1215	GW	5		X					X		
	BL-103U	5-23-2024	1350	GW	5		X					X		
	BL-104U	5-23-2024	1255	GW	5		X					X		
	BL-105L	5-23-2024	1130	GW	5		X					X		
	BL-106B	5-24-2024	1020	GW	5		X					X		
	BL-107B	5-24-2024	1030	GW	2		X	(PKW)				X		metals only
	BL-10	5-23-2024	1440	GW	15	Y	X					X		ms/msd
	FB-052324	5-23-2024	1230	—	5		X					X		

Special Instructions / Comments:

Turnaround Requirements

___ Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
X Standard (10 Business Days)
Date Required:

Report Requirements

___ Tier II/Cat A -Results/QC
X Tier IV/Cat B - Data Validation Report w/. Data
EDD: X Yes ___ No
EDD Type: NYSDEC

Metals: RCRA 8 • PP 13 • (AL 23) • TCLP • Other (List)

VOA/SVOA Report List: (TC) • BTEX • TCLP • CP-51/Stars • THM • Other: _____

Invoice To: (X Same as Report To)

PO #:
Company:
Contact:
Email:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	B. Kudla-Williams	Randy Diw				
Company	Arcadis	AW				
Date/Time	5-24-2024 1345	5/24/24 1345				

R2404485 5
ARCADIS
Batavia Landfill

Distribution: White - Lab Copy; Yellow - Return to Originator

Chain of Custody / Analytical Request Form

74761

SR#:

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Report To:	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER
Company: Arcadis	Project Name: Batavia Landfill
Contact: Aaron Richardson	Project Number:
Email: aaron.richardson@arcadis.com	ALS Quote #:
Phone: 585-202-4393	Sampler's Signature:
Address: 100 Chestnut St #1020	Email CC:
Rochester, NY	Email CC:
	State Samples Collected (Circle or Write): (NY) MA, PA, CT, Other:

Preservative: 1 | 2

Matrix: GW, WW, SW, DW, S, L, NA

Lab ID (ALS)	Sample ID:	Date	Time	Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Notes:
	DUP-052324	5-23-2024	—	GW	5		X					X		
	WL-B1	5-23-2024	1520	SW	5		X					X		
	WL-C1	5-23-2024	1500	SW	5		X					X		
	TRIP BLANK	—	—	—	2		X							

0. None
1. HCl
2. HNO3
3. H2SO4
4. NAOH
5. Zn Acet.
6. MeOH
7. NaHSO4
8. Other

Special Instructions / Comments:

Turnaround Requirements

____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
X Standard (10 Business Days)
Date Required:

Report Requirements

____Tier II/Cat A -Results/QC
X Tier IV/Cat B - Data Validation Report w/. Data
EDD: X Yes ____No
EDD Type: NYSDEC

Metals: RCRA 8•PP 13•(TAL 23)•TCLP•Other (List)

VOA/SVOA Report List: (TCL) • BTEX • TCLP • CP-51/Stars • THM • Other: _____

Invoice To: (X) Same as Report To)

PO #:
Company:
Contact:
Email:
Phone:
Address:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	B. Kudla-Williams	Randy Dice				
Company	Arcadis	AWI				
Date/Time	5-24-2024 1345	5/24/24 1345				

Distribution: White - Lab Copy; Yellow - Return to Originator

R2404485 5
ARCADIS
Batavia Landfill

Cooler Receipt and Preservation Check Form

Project/Client _____ Folder Number _____.

Cooler received on 5/24/24 by: RDA **COURIER:** ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	Did **VOA** vials have sig* **bubbles?**	(Y) (N)	NA
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Sig* bubbles: **Alk?**	Y N (NA)	**Sulfide?** Y N (NA)
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC)	CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 5/24/24 Time: 1355 ID: IR#12 (IR#11) From: Temp Blank (Sample Bottle)

Temp (°C)	5.7						
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: SMO by RDA on 5/24/24 at 1355
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 5/24/24 Time: 1411 by: RDA

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 N/A
13. Were dissolved metals filtered in the field? YES NO (N/A)
14. 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? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	221523	HNO_3	✓		Label covers info					
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 040824-3AX11
Explain all Discrepancies/ Other Comments:
*One vial: BL-1011, WL-B1

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RDA *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

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

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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	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.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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 Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[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. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

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.

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2404485
Project: Batavia Landfill/

Sample Name: BL-100U **Date Collected:** 05/23/24
Lab Code: R2404485-001 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: BL-101U **Date Collected:** 05/23/24
Lab Code: R2404485-002 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: BL-102U **Date Collected:** 05/23/24
Lab Code: R2404485-003 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: BL-103U **Date Collected:** 05/23/24
Lab Code: R2404485-004 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2404485
Project: Batavia Landfill/

Sample Name: BL-104U **Date Collected:** 05/23/24
Lab Code: R2404485-005 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: BL-105L **Date Collected:** 05/23/24
Lab Code: R2404485-006 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: BL-106B **Date Collected:** 05/24/24
Lab Code: R2404485-007 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: BL-107B **Date Collected:** 05/24/24
Lab Code: R2404485-008 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2404485
Project: Batavia Landfill/

Sample Name: BL-10 **Date Collected:** 05/23/24
Lab Code: R2404485-009 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: FB-052324 **Date Collected:** 05/23/24
Lab Code: R2404485-010 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: DUP-052324 **Date Collected:** 05/23/24
Lab Code: R2404485-011 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name: WL-B1 **Date Collected:** 05/23/24
Lab Code: R2404485-012 **Date Received:** 05/24/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill/		

Sample Name:	WL-C1	**Date Collected:**	05/23/24
Lab Code:	R2404485-013	**Date Received:**	05/24/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER

Sample Name:	Trip Blank	**Date Collected:**	05/23/24
Lab Code:	R2404485-014	**Date Received:**	05/24/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D 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.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

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

Volatile Organic Compounds by GC/MS

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

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 09:45
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-100U	**Units:**	ug/L
Lab Code:	R2404485-001	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 13:10	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 13:10	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 13:10	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:10	
1,4-Dichlorobenzene	**0.26 J**	1.0	0.20	1	06/04/24 13:10	
1,4-Dioxane	40 U	40	13	1	06/04/24 13:10	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 13:10	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 13:10	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 13:10	
Acetone	5.0 U	5.0	5.0	1	06/04/24 13:10	
Benzene	1.0 U	1.0	0.20	1	06/04/24 13:10	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 13:10	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 13:10	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 13:10	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 13:10	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:10	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 13:10	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 13:10	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 13:10	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 13:10	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 13:10	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 13:10	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 13:10	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 13:10	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 13:10	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 13:10	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 13:10	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 13:10	
Styrene	1.0 U	1.0	0.20	1	06/04/24 13:10	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 13:10	
Toluene	1.0 U	1.0	0.20	1	06/04/24 13:10	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 09:45
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-100U	**Units:**	ug/L
Lab Code:	R2404485-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**0.22 J**	1.0	0.20	1	06/04/24 13:10	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 13:10	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 13:10	
cis-1,2-Dichloroethene	**0.29 J**	1.0	0.23	1	06/04/24 13:10	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 13:10	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 13:10	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 13:10	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 13:10	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 13:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/04/24 13:10	
Dibromofluoromethane	97	80 - 116	06/04/24 13:10	
Toluene-d8	97	87 - 121	06/04/24 13:10	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 10:20
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-101U	**Units:**	ug/L
Lab Code:	R2404485-002	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,1-Dichloroethane (1,1-DCA)	**6.7**	1.0	0.20	1	06/04/24 13:33	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 13:33	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 13:33	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 13:33	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:33	
1,4-Dichlorobenzene	**0.28 J**	1.0	0.20	1	06/04/24 13:33	
1,4-Dioxane	40 U	40	13	1	06/04/24 13:33	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 13:33	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 13:33	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 13:33	
Acetone	5.0 U	5.0	5.0	1	06/04/24 13:33	
Benzene	**0.31 J**	1.0	0.20	1	06/04/24 13:33	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 13:33	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 13:33	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 13:33	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 13:33	
Chlorobenzene	**0.73 J**	1.0	0.20	1	06/04/24 13:33	
Chloroethane	**0.67 J**	1.0	0.23	1	06/04/24 13:33	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 13:33	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 13:33	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 13:33	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 13:33	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 13:33	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 13:33	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 13:33	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 13:33	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 13:33	
Methyl tert-Butyl Ether	**0.22 J**	1.0	0.20	1	06/04/24 13:33	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 13:33	
Styrene	1.0 U	1.0	0.20	1	06/04/24 13:33	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 13:33	
Toluene	1.0 U	1.0	0.20	1	06/04/24 13:33	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 10:20
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-101U	**Units:**	ug/L
Lab Code:	R2404485-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 13:33	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 13:33	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 13:33	
cis-1,2-Dichloroethene	**0.65 J**	1.0	0.23	1	06/04/24 13:33	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 13:33	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 13:33	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 13:33	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 13:33	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 13:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/04/24 13:33	
Dibromofluoromethane	95	80 - 116	06/04/24 13:33	
Toluene-d8	98	87 - 121	06/04/24 13:33	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 12:15
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-102U	**Units:**	ug/L
Lab Code:	R2404485-003	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,1-Dichloroethane (1,1-DCA)	**0.65 J**	1.0	0.20	1	06/04/24 13:56	
1,1-Dichloroethene (1,1-DCE)	**1.3**	1.0	0.20	1	06/04/24 13:56	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 13:56	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 13:56	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 13:56	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:56	
1,4-Dichlorobenzene	**0.23 J**	1.0	0.20	1	06/04/24 13:56	
1,4-Dioxane	40 U	40	13	1	06/04/24 13:56	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 13:56	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 13:56	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 13:56	
Acetone	5.0 U	5.0	5.0	1	06/04/24 13:56	
Benzene	1.0 U	1.0	0.20	1	06/04/24 13:56	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 13:56	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 13:56	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 13:56	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 13:56	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 13:56	
Chloroethane	**14**	1.0	0.23	1	06/04/24 13:56	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 13:56	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 13:56	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 13:56	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 13:56	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 13:56	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 13:56	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 13:56	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 13:56	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 13:56	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 13:56	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 13:56	
Styrene	1.0 U	1.0	0.20	1	06/04/24 13:56	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 13:56	
Toluene	1.0 U	1.0	0.20	1	06/04/24 13:56	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 12:15
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-102U	**Units:**	ug/L
Lab Code:	R2404485-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 13:56	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 13:56	
Vinyl Chloride	**1.4**	1.0	0.20	1	06/04/24 13:56	
cis-1,2-Dichloroethene	**2.4**	1.0	0.23	1	06/04/24 13:56	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 13:56	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 13:56	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 13:56	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 13:56	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 13:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/04/24 13:56	
Dibromofluoromethane	101	80 - 116	06/04/24 13:56	
Toluene-d8	103	87 - 121	06/04/24 13:56	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 13:50
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-103U	**Units:**	ug/L
Lab Code:	R2404485-004	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 14:18	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 14:18	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 14:18	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 14:18	
1,4-Dichlorobenzene	**0.32 J**	1.0	0.20	1	06/04/24 14:18	
1,4-Dioxane	40 U	40	13	1	06/04/24 14:18	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 14:18	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 14:18	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 14:18	
Acetone	5.0 U	5.0	5.0	1	06/04/24 14:18	
Benzene	**0.26 J**	1.0	0.20	1	06/04/24 14:18	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 14:18	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 14:18	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 14:18	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 14:18	
Chlorobenzene	**0.24 J**	1.0	0.20	1	06/04/24 14:18	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 14:18	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 14:18	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 14:18	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 14:18	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 14:18	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 14:18	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 14:18	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 14:18	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 14:18	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 14:18	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 14:18	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 14:18	
Styrene	1.0 U	1.0	0.20	1	06/04/24 14:18	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 14:18	
Toluene	1.0 U	1.0	0.20	1	06/04/24 14:18	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 13:50
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-103U	**Units:**	ug/L
Lab Code:	R2404485-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 14:18	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 14:18	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 14:18	
cis-1,2-Dichloroethene	**0.40 J**	1.0	0.23	1	06/04/24 14:18	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 14:18	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 14:18	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 14:18	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 14:18	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 14:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/04/24 14:18	
Dibromofluoromethane	97	80 - 116	06/04/24 14:18	
Toluene-d8	97	87 - 121	06/04/24 14:18	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 12:55
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-104U	**Units:**	ug/L
Lab Code:	R2404485-005	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,1-Dichloroethane (1,1-DCA)	**0.30 J**	1.0	0.20	1	06/04/24 14:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 14:41	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 14:41	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 14:41	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,2-Dichlorobenzene	**0.57 J**	1.0	0.20	1	06/04/24 14:41	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 14:41	
1,3-Dichlorobenzene	**0.33 J**	1.0	0.20	1	06/04/24 14:41	
1,4-Dichlorobenzene	**3.2**	1.0	0.20	1	06/04/24 14:41	
1,4-Dioxane	40 U	40	13	1	06/04/24 14:41	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 14:41	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 14:41	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 14:41	
Acetone	5.0 U	5.0	5.0	1	06/04/24 14:41	
Benzene	**6.1**	1.0	0.20	1	06/04/24 14:41	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 14:41	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 14:41	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 14:41	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 14:41	
Chlorobenzene	**5.6**	1.0	0.20	1	06/04/24 14:41	
Chloroethane	**3.5**	1.0	0.23	1	06/04/24 14:41	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 14:41	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 14:41	
Cyclohexane	**0.72 J**	1.0	0.60	1	06/04/24 14:41	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 14:41	
Dichlorodifluoromethane (CFC 12)	**0.72 J**	1.0	0.21	1	06/04/24 14:41	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 14:41	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 14:41	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 14:41	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 14:41	
Methyl tert-Butyl Ether	**0.45 J**	1.0	0.20	1	06/04/24 14:41	
Methylcyclohexane	**0.49 J**	1.0	0.20	1	06/04/24 14:41	
Styrene	1.0 U	1.0	0.20	1	06/04/24 14:41	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 14:41	
Toluene	1.0 U	1.0	0.20	1	06/04/24 14:41	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 12:55
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-104U	**Units:**	ug/L
Lab Code:	R2404485-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 14:41	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 14:41	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 14:41	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 14:41	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 14:41	
m,p-Xylenes	**0.21 J**	2.0	0.20	1	06/04/24 14:41	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 14:41	
trans-1,2-Dichloroethene	**0.35 J**	1.0	0.20	1	06/04/24 14:41	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 14:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/04/24 14:41	
Dibromofluoromethane	97	80 - 116	06/04/24 14:41	
Toluene-d8	98	87 - 121	06/04/24 14:41	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 11:30
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-105L	**Units:**	ug/L
Lab Code:	R2404485-006	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 15:04	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 15:04	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 15:04	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:04	
1,4-Dichlorobenzene	**0.22 J**	1.0	0.20	1	06/04/24 15:04	
1,4-Dioxane	40 U	40	13	1	06/04/24 15:04	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 15:04	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 15:04	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 15:04	
Acetone	**6.2**	5.0	5.0	1	06/04/24 15:04	
Benzene	1.0 U	1.0	0.20	1	06/04/24 15:04	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 15:04	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 15:04	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 15:04	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 15:04	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:04	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 15:04	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 15:04	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 15:04	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 15:04	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 15:04	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 15:04	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 15:04	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 15:04	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 15:04	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 15:04	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 15:04	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 15:04	
Styrene	1.0 U	1.0	0.20	1	06/04/24 15:04	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 15:04	
Toluene	1.0 U	1.0	0.20	1	06/04/24 15:04	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 11:30
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-105L	**Units:**	ug/L
Lab Code:	R2404485-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 15:04	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 15:04	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 15:04	
cis-1,2-Dichloroethene	**0.26 J**	1.0	0.23	1	06/04/24 15:04	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 15:04	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 15:04	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 15:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 15:04	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 15:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/04/24 15:04	
Dibromofluoromethane	98	80 - 116	06/04/24 15:04	
Toluene-d8	98	87 - 121	06/04/24 15:04	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/24/24 10:20
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-106B	**Units:**	ug/L
Lab Code:	R2404485-007	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,1-Dichloroethane (1,1-DCA)	**0.34 J**	1.0	0.20	1	06/04/24 15:26	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 15:26	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 15:26	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 15:26	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:26	
1,4-Dioxane	**13 J**	40	13	1	06/04/24 15:26	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 15:26	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 15:26	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 15:26	
Acetone	5.0 U	5.0	5.0	1	06/04/24 15:26	
Benzene	1.0 U	1.0	0.20	1	06/04/24 15:26	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 15:26	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 15:26	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 15:26	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 15:26	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:26	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 15:26	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 15:26	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 15:26	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 15:26	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 15:26	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 15:26	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 15:26	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 15:26	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 15:26	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 15:26	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 15:26	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 15:26	
Styrene	1.0 U	1.0	0.20	1	06/04/24 15:26	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 15:26	
Toluene	1.0 U	1.0	0.20	1	06/04/24 15:26	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/24/24 10:20
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-106B	**Units:**	ug/L
Lab Code:	R2404485-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 15:26	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 15:26	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 15:26	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 15:26	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 15:26	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 15:26	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 15:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 15:26	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 15:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/04/24 15:26	
Dibromofluoromethane	99	80 - 116	06/04/24 15:26	
Toluene-d8	101	87 - 121	06/04/24 15:26	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 14:40
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-10	**Units:**	ug/L
Lab Code:	R2404485-009	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,1-Dichloroethane (1,1-DCA)	**0.38 J**	1.0	0.20	1	06/04/24 15:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 15:49	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 15:49	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 15:49	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 15:49	
1,4-Dioxane	40 U	40	13	1	06/04/24 15:49	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 15:49	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 15:49	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 15:49	
Acetone	5.0 U	5.0	5.0	1	06/04/24 15:49	
Benzene	**3.2**	1.0	0.20	1	06/04/24 15:49	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 15:49	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 15:49	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 15:49	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 15:49	
Chlorobenzene	**1.6**	1.0	0.20	1	06/04/24 15:49	
Chloroethane	**23**	1.0	0.23	1	06/04/24 15:49	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 15:49	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 15:49	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 15:49	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 15:49	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 15:49	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 15:49	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 15:49	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 15:49	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 15:49	
Methyl tert-Butyl Ether	**0.97 J**	1.0	0.20	1	06/04/24 15:49	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 15:49	
Styrene	1.0 U	1.0	0.20	1	06/04/24 15:49	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 15:49	
Toluene	1.0 U	1.0	0.20	1	06/04/24 15:49	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 14:40
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	BL-10	**Units:**	ug/L
Lab Code:	R2404485-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 15:49	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 15:49	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 15:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 15:49	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 15:49	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 15:49	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 15:49	
trans-1,2-Dichloroethene	**0.26 J**	1.0	0.20	1	06/04/24 15:49	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 15:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/04/24 15:49	
Dibromofluoromethane	92	80 - 116	06/04/24 15:49	
Toluene-d8	95	87 - 121	06/04/24 15:49	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 12:30
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	FB-052324	**Units:**	ug/L
Lab Code:	R2404485-010	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 12:48	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 12:48	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 12:48	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:48	
1,4-Dichlorobenzene	**0.22 J**	1.0	0.20	1	06/04/24 12:48	
1,4-Dioxane	40 U	40	13	1	06/04/24 12:48	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 12:48	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 12:48	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 12:48	
Acetone	5.0 U	5.0	5.0	1	06/04/24 12:48	
Benzene	1.0 U	1.0	0.20	1	06/04/24 12:48	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 12:48	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 12:48	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 12:48	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 12:48	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:48	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 12:48	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 12:48	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 12:48	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 12:48	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 12:48	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 12:48	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 12:48	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 12:48	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 12:48	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 12:48	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 12:48	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 12:48	
Styrene	1.0 U	1.0	0.20	1	06/04/24 12:48	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 12:48	
Toluene	1.0 U	1.0	0.20	1	06/04/24 12:48	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 12:30
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	FB-052324	**Units:**	ug/L
Lab Code:	R2404485-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 12:48	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 12:48	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 12:48	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 12:48	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 12:48	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 12:48	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 12:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 12:48	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 12:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/04/24 12:48	
Dibromofluoromethane	97	80 - 116	06/04/24 12:48	
Toluene-d8	98	87 - 121	06/04/24 12:48	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	DUP-052324	**Units:**	ug/L
Lab Code:	R2404485-011	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,1-Dichloroethane (1,1-DCA)	**0.46 J**	1.0	0.20	1	06/04/24 16:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 16:12	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 16:12	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 16:12	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:12	
1,4-Dioxane	40 U	40	13	1	06/04/24 16:12	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 16:12	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 16:12	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 16:12	
Acetone	5.0 U	5.0	5.0	1	06/04/24 16:12	
Benzene	**3.2**	1.0	0.20	1	06/04/24 16:12	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 16:12	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 16:12	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 16:12	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 16:12	
Chlorobenzene	**1.7**	1.0	0.20	1	06/04/24 16:12	
Chloroethane	**22**	1.0	0.23	1	06/04/24 16:12	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 16:12	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 16:12	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 16:12	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 16:12	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 16:12	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 16:12	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 16:12	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 16:12	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 16:12	
Methyl tert-Butyl Ether	**1.0**	1.0	0.20	1	06/04/24 16:12	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 16:12	
Styrene	1.0 U	1.0	0.20	1	06/04/24 16:12	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 16:12	
Toluene	1.0 U	1.0	0.20	1	06/04/24 16:12	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	DUP-052324	**Units:**	ug/L
Lab Code:	R2404485-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 16:12	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 16:12	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 16:12	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 16:12	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 16:12	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 16:12	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 16:12	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 16:12	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 16:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/04/24 16:12	
Dibromofluoromethane	97	80 - 116	06/04/24 16:12	
Toluene-d8	99	87 - 121	06/04/24 16:12	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 15:20
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	WL-B1	**Units:**	ug/L
Lab Code:	R2404485-012	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 16:34	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 16:34	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 16:34	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:34	
1,4-Dioxane	40 U	40	13	1	06/04/24 16:34	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 16:34	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 16:34	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 16:34	
Acetone	**6.7**	5.0	5.0	1	06/04/24 16:34	
Benzene	1.0 U	1.0	0.20	1	06/04/24 16:34	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 16:34	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 16:34	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 16:34	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 16:34	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:34	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 16:34	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 16:34	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 16:34	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 16:34	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 16:34	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 16:34	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 16:34	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 16:34	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 16:34	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 16:34	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 16:34	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 16:34	
Styrene	1.0 U	1.0	0.20	1	06/04/24 16:34	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 16:34	
Toluene	**1.1**	1.0	0.20	1	06/04/24 16:34	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 15:20
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	WL-B1	**Units:**	ug/L
Lab Code:	R2404485-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 16:34	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 16:34	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 16:34	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 16:34	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 16:34	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 16:34	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 16:34	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 16:34	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 16:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/04/24 16:34	
Dibromofluoromethane	99	80 - 116	06/04/24 16:34	
Toluene-d8	100	87 - 121	06/04/24 16:34	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 15:00
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	WL-C1	**Units:**	ug/L
Lab Code:	R2404485-013	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 16:57	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 16:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 16:57	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:57	
1,4-Dioxane	40 U	40	13	1	06/04/24 16:57	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 16:57	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 16:57	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 16:57	
Acetone	5.0 U	5.0	5.0	1	06/04/24 16:57	
Benzene	1.0 U	1.0	0.20	1	06/04/24 16:57	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 16:57	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 16:57	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 16:57	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 16:57	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 16:57	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 16:57	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 16:57	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 16:57	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 16:57	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 16:57	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 16:57	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 16:57	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 16:57	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 16:57	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 16:57	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 16:57	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 16:57	
Styrene	1.0 U	1.0	0.20	1	06/04/24 16:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 16:57	
Toluene	**1.2**	1.0	0.20	1	06/04/24 16:57	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24 15:00
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	WL-C1	**Units:**	ug/L
Lab Code:	R2404485-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 16:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 16:57	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 16:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 16:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 16:57	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 16:57	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 16:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 16:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 16:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/04/24 16:57	
Dibromofluoromethane	96	80 - 116	06/04/24 16:57	
Toluene-d8	97	87 - 121	06/04/24 16:57	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2404485-014	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 12:25	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 12:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 12:25	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:25	
1,4-Dichlorobenzene	**0.77 J**	1.0	0.20	1	06/04/24 12:25	
1,4-Dioxane	40 U	40	13	1	06/04/24 12:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 12:25	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 12:25	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 12:25	
Acetone	5.0 U	5.0	5.0	1	06/04/24 12:25	
Benzene	1.0 U	1.0	0.20	1	06/04/24 12:25	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 12:25	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 12:25	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 12:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 12:25	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:25	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 12:25	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 12:25	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 12:25	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 12:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 12:25	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 12:25	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 12:25	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 12:25	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 12:25	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 12:25	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 12:25	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 12:25	
Styrene	1.0 U	1.0	0.20	1	06/04/24 12:25	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 12:25	
Toluene	1.0 U	1.0	0.20	1	06/04/24 12:25	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24
Sample Matrix:	Water	**Date Received:**	05/24/24 13:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2404485-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 12:25	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 12:25	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 12:25	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 12:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 12:25	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 12:25	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 12:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 12:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 12:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/04/24 12:25	
Dibromofluoromethane	94	80 - 116	06/04/24 12:25	
Toluene-d8	97	87 - 121	06/04/24 12:25	

Metals

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

right solutions.
right partner.

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 6010C,Mercury by EPA 7470A

Workorder

R2404485

Client

ARCADIS

Project

Batavia Landfill

06/07/2024

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

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-100U	Collected	Received	Matrix	Prep Method
R2404485-001	05/23/24 0945	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	70	J	ug/L	30	100	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Arsenic, Total	17		ug/L	6	10	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Barium, Total	237		ug/L	3	20	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.4	J	ug/L	0.4	5.0	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Calcium, Total	143000		ug/L	300	1000	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Iron, Total	12500		ug/L	70	100	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Magnesium, Total	32500		ug/L	30	1000	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Manganese, Total	294		ug/L	4	10	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:05	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Potassium, Total	2500		ug/L	400	2000	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Sodium, Total	711000		ug/L	6000	20000	20	05/30/24 18:50	R-ICP-AES-07_842611	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Vanadium, Total	2	J	ug/L	0.7	50	1	05/29/24 18:11	R-ICP-AES-07_842434	439109
P	Zinc, Total	8	J	ug/L	3	20	1	05/29/24 18:11	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-101U	Collected	Received	Matrix	Prep Method
R2404485-002	05/23/24 1020	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	120		ug/L	30	100	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Arsenic, Total	38		ug/L	6	10	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Barium, Total	405		ug/L	3	20	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Calcium, Total	98900		ug/L	300	1000	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Cobalt, Total	5	J	ug/L	0.9	50	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Iron, Total	7980		ug/L	70	100	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Magnesium, Total	99900		ug/L	30	1000	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Manganese, Total	262		ug/L	4	10	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:08	R-CVAA-03_842683	439241
P	Nickel, Total	8	J	ug/L	3	40	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Potassium, Total	3300		ug/L	400	2000	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Sodium, Total	22200		ug/L	300	1000	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Vanadium, Total	50	U	ug/L	0.7	50	1	05/29/24 18:14	R-ICP-AES-07_842434	439109
P	Zinc, Total	8	J	ug/L	3	20	1	05/29/24 18:14	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-102U	Collected	Received	Matrix	Prep Method
R2404485-003	05/23/24 1215	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	690		ug/L	30	100	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Barium, Total	54		ug/L	3	20	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Calcium, Total	85600		ug/L	300	1000	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Chromium, Total	2	J	ug/L	2	10	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Iron, Total	6080		ug/L	70	100	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Magnesium, Total	31300		ug/L	30	1000	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Manganese, Total	199		ug/L	4	10	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:15	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Potassium, Total	2500		ug/L	400	2000	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Sodium, Total	8500		ug/L	300	1000	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Vanadium, Total	4	J	ug/L	0.7	50	1	05/29/24 18:17	R-ICP-AES-07_842434	439109
P	Zinc, Total	12	J	ug/L	3	20	1	05/29/24 18:17	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-103U	Collected	Received	Matrix	Prep Method
R2404485-004	05/23/24 1350	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Arsenic, Total	7	J	ug/L	6	10	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Barium, Total	106		ug/L	3	20	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.4	J	ug/L	0.4	5.0	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Calcium, Total	130000		ug/L	300	1000	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Iron, Total	15000		ug/L	70	100	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Magnesium, Total	40900		ug/L	30	1000	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Manganese, Total	212		ug/L	4	10	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:23	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Potassium, Total	1700	J	ug/L	400	2000	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Sodium, Total	11000		ug/L	300	1000	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Vanadium, Total	50	U	ug/L	0.7	50	1	05/29/24 18:20	R-ICP-AES-07_842434	439109
P	Zinc, Total	4	J	ug/L	3	20	1	05/29/24 18:20	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-104U	Collected	Received	Matrix	Prep Method
R2404485-005	05/23/24 1255	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Barium, Total	464		ug/L	3	20	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.6	J	ug/L	0.4	5.0	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Calcium, Total	230000		ug/L	300	1000	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Iron, Total	32600		ug/L	70	100	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Magnesium, Total	52500		ug/L	30	1000	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Manganese, Total	310		ug/L	4	10	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:25	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Potassium, Total	5900		ug/L	400	2000	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Sodium, Total	194000		ug/L	300	1000	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Vanadium, Total	1	J	ug/L	0.7	50	1	05/29/24 18:30	R-ICP-AES-07_842434	439109
P	Zinc, Total	7	J	ug/L	3	20	1	05/29/24 18:30	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-105L	Collected	Received	Matrix	Prep Method
R2404485-006	05/23/24 1130	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Arsenic, Total	8	J	ug/L	6	10	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Barium, Total	83		ug/L	3	20	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.4	J	ug/L	0.4	5.0	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Calcium, Total	124000		ug/L	300	1000	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Copper, Total	11	J	ug/L	4	20	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Iron, Total	12200		ug/L	70	100	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Lead, Total	4.2	J	ug/L	3.2	5.0	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Magnesium, Total	52300		ug/L	30	1000	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Manganese, Total	298		ug/L	4	10	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:28	R-CVAA-03_842683	439241
P	Nickel, Total	3	J	ug/L	3	40	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Potassium, Total	1000	J	ug/L	400	2000	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Sodium, Total	6300		ug/L	300	1000	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Vanadium, Total	1	J	ug/L	0.7	50	1	05/29/24 18:33	R-ICP-AES-07_842434	439109
P	Zinc, Total	11	J	ug/L	3	20	1	05/29/24 18:33	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-106B	Collected	Received	Matrix	Prep Method
R2404485-007	05/24/24 1020	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Barium, Total	974		ug/L	3	20	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Calcium, Total	115000		ug/L	300	1000	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Iron, Total	10200		ug/L	70	100	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Magnesium, Total	74700		ug/L	30	1000	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Manganese, Total	42		ug/L	4	10	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:30	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Potassium, Total	6900		ug/L	400	2000	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Sodium, Total	21200		ug/L	300	1000	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Vanadium, Total	50	U	ug/L	0.7	50	1	05/29/24 18:37	R-ICP-AES-07_842434	439109
P	Zinc, Total	5	J	ug/L	3	20	1	05/29/24 18:37	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-107B	Collected	Received	Matrix	Prep Method
R2404485-008	05/24/24 1030	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Barium, Total	1290		ug/L	3	20	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Calcium, Total	101000		ug/L	300	1000	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Iron, Total	7880		ug/L	70	100	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Magnesium, Total	78800		ug/L	30	1000	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Manganese, Total	126		ug/L	4	10	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:33	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Potassium, Total	47000		ug/L	400	2000	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Sodium, Total	89900		ug/L	300	1000	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Vanadium, Total	0.7	J	ug/L	0.7	50	1	05/29/24 18:40	R-ICP-AES-07_842434	439109
P	Zinc, Total	5	J	ug/L	3	20	1	05/29/24 18:40	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

BL-10	Collected	Received	Matrix	Prep Method
R2404485-009	05/23/24 1440	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Arsenic, Total	38		ug/L	6	10	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Barium, Total	1060		ug/L	3	20	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.4	J	ug/L	0.4	5.0	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Calcium, Total	114000		ug/L	300	1000	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Cobalt, Total	7	J	ug/L	0.9	50	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Iron, Total	14100		ug/L	70	100	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Magnesium, Total	96200		ug/L	30	1000	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Manganese, Total	22		ug/L	4	10	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:41	R-CVAA-03_842683	439241
P	Nickel, Total	10	J	ug/L	3	40	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Potassium, Total	28000		ug/L	400	2000	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Sodium, Total	153000		ug/L	300	1000	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Vanadium, Total	0.7	J	ug/L	0.7	50	1	05/29/24 18:43	R-ICP-AES-07_842434	439109
P	Zinc, Total	6	J	ug/L	3	20	1	05/29/24 18:43	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

FB-052324	Collected	Received	Matrix	Prep Method
R2404485-010	05/23/24 1230	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Barium, Total	20	U	ug/L	3	20	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Calcium, Total	1000	U	ug/L	300	1000	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Iron, Total	100	U	ug/L	70	100	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Magnesium, Total	1000	U	ug/L	30	1000	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Manganese, Total	10	U	ug/L	4	10	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:48	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Potassium, Total	2000	U	ug/L	400	2000	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Sodium, Total	1000	U	ug/L	300	1000	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Vanadium, Total	50	U	ug/L	0.7	50	1	05/29/24 18:59	R-ICP-AES-07_842434	439109
P	Zinc, Total	3	J	ug/L	3	20	1	05/29/24 18:59	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

DUP-052324

Collected	Received	Matrix	Prep Method
R2404485-011	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Arsenic, Total	39		ug/L	6	10	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Barium, Total	1070		ug/L	3	20	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.4	J	ug/L	0.4	5.0	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Calcium, Total	115000		ug/L	300	1000	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Cobalt, Total	7	J	ug/L	0.9	50	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Iron, Total	14100		ug/L	70	100	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Magnesium, Total	97300		ug/L	30	1000	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Manganese, Total	22		ug/L	4	10	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:51	R-CVAA-03_842683	439241
P	Nickel, Total	10	J	ug/L	3	40	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Potassium, Total	28200		ug/L	400	2000	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Sodium, Total	156000		ug/L	300	1000	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Vanadium, Total	0.8	J	ug/L	0.7	50	1	05/29/24 19:09	R-ICP-AES-07_842434	439109
P	Zinc, Total	6	J	ug/L	3	20	1	05/29/24 19:09	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

WL-B1	Collected	Received	Matrix	Prep Method
R2404485-012	05/23/24 1520	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	40	J	ug/L	30	100	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Barium, Total	125		ug/L	3	20	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Cadmium, Total	0.4	J	ug/L	0.4	5.0	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Calcium, Total	36900		ug/L	300	1000	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Cobalt, Total	2	J	ug/L	0.9	50	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Iron, Total	3880		ug/L	70	100	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Magnesium, Total	20100		ug/L	30	1000	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Manganese, Total	11400		ug/L	40	100	10	05/30/24 18:53	R-ICP-AES-07_842611	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:53	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Potassium, Total	4700		ug/L	400	2000	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Sodium, Total	1800		ug/L	300	1000	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Thallium, Total	10		ug/L	8	10	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Vanadium, Total	50	U	ug/L	0.7	50	1	05/29/24 19:12	R-ICP-AES-07_842434	439109
P	Zinc, Total	16	J	ug/L	3	20	1	05/29/24 19:12	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

WL-C1	Collected	Received	Matrix	Prep Method
R2404485-013	05/23/24 1500	05/24/24 1345	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	2860		ug/L	30	100	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Antimony, Total	60	U	ug/L	11	60	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Barium, Total	49		ug/L	3	20	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Calcium, Total	45700		ug/L	300	1000	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Chromium, Total	4	J	ug/L	2	10	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Cobalt, Total	1	J	ug/L	0.9	50	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Iron, Total	3740		ug/L	70	100	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Lead, Total	4.7	J	ug/L	3.2	5.0	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Magnesium, Total	16400		ug/L	30	1000	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Manganese, Total	657		ug/L	4	10	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 12:56	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Potassium, Total	3900		ug/L	400	2000	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Sodium, Total	3400		ug/L	300	1000	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Vanadium, Total	5	J	ug/L	0.7	50	1	05/29/24 19:15	R-ICP-AES-07_842434	439109
P	Zinc, Total	44		ug/L	3	20	1	05/29/24 19:15	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client ARCADIS

Project Batavia Landfill

Workorder **R2404485**

Metals by EPA 6010C (P),Mercury by EPA 7470A (CV)

Method Blank

	Matrix	Prep Method
R2404485-MB	Water	EPA 3005A/3010A,Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
P	Aluminum, Total	100	U	ug/L	30	100	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Antimony, Total	14	J	ug/L	11	60	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Arsenic, Total	10	U	ug/L	6	10	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Barium, Total	20	U	ug/L	3	20	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Beryllium, Total	3.0	U	ug/L	0.2	3.0	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Cadmium, Total	5.0	U	ug/L	0.4	5.0	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Calcium, Total	1000	U	ug/L	300	1000	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Chromium, Total	10	U	ug/L	2	10	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Cobalt, Total	50	U	ug/L	0.9	50	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Copper, Total	20	U	ug/L	4	20	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Iron, Total	100	U	ug/L	70	100	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Lead, Total	5.0	U	ug/L	3.2	5.0	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Magnesium, Total	1000	U	ug/L	30	1000	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Manganese, Total	10	U	ug/L	4	10	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	05/31/24 11:57	R-CVAA-03_842683	439241
P	Nickel, Total	40	U	ug/L	3	40	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Potassium, Total	2000	U	ug/L	400	2000	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Selenium, Total	10	U	ug/L	7	10	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Silver, Total	10	U	ug/L	0.6	10	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Sodium, Total	1000	U	ug/L	300	1000	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Thallium, Total	10	U	ug/L	8	10	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Vanadium, Total	50	U	ug/L	0.7	50	1	05/29/24 17:51	R-ICP-AES-07_842434	439109
P	Zinc, Total	20	U	ug/L	3	20	1	05/29/24 17:51	R-ICP-AES-07_842434	439109

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

QC Summary Forms

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

Volatile Organic Compounds by GC/MS

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: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2404485
Project: Batavia Landfill
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
BL-100U	R2404485-001	96	97	97
BL-101U	R2404485-002	96	95	98
BL-102U	R2404485-003	103	101	103
BL-103U	R2404485-004	97	97	97
BL-104U	R2404485-005	97	97	98
BL-105L	R2404485-006	96	98	98
BL-106B	R2404485-007	98	99	101
BL-10	R2404485-009	92	92	95
FB-052324	R2404485-010	96	97	98
DUP-052324	R2404485-011	98	97	99
WL-B1	R2404485-012	98	99	100
WL-C1	R2404485-013	93	96	97
Trip Blank	R2404485-014	95	94	97
Lab Control Sample	RQ2406178-03	98	96	98
Method Blank	RQ2406178-04	97	96	98
BL-10 MS	RQ2406178-05	99	97	101
BL-10 DMS	RQ2406178-06	99	97	98

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24
Sample Matrix:	Water	**Date Received:**	05/24/24
		Date Analyzed:	06/4/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	BL-10	**Units:**	ug/L
Lab Code:	R2404485-009	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2406178-05			Duplicate Matrix Spike RQ2406178-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.0 U	55.5	50.0	111	57.0	50.0	114	74-127	3	30
1,1,2,2-Tetrachloroethane	1.0 U	45.1	50.0	90	47.2	50.0	94	72-122	5	30
1,1,2-Trichloroethane	1.0 U	49.4	50.0	99	50.3	50.0	101	82-121	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	50.6	50.0	101	53.2	50.0	106	50-147	5	30
1,1-Dichloroethane (1,1-DCA)	0.38 J	55.4	50.0	110	57.3	50.0	114	74-132	3	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	52.1	50.0	104	55.5	50.0	111	71-118	6	30
1,2,3-Trichlorobenzene	1.0 U	49.3	50.0	99	50.8	50.0	102	59-129	3	30
1,2,4-Trichlorobenzene	1.0 U	46.7	50.0	93	50.8	50.0	102	69-122	8	30
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	42.5	50.0	85	47.0	50.0	94	37-150	10	30
1,2-Dibromoethane	1.0 U	49.9	50.0	100	50.5	50.0	101	67-127	1	30
1,2-Dichlorobenzene	1.0 U	49.0	50.0	98	51.4	50.0	103	77-120	5	30
1,2-Dichloroethane	1.0 U	51.0	50.0	102	52.7	50.0	105	68-130	3	30
1,2-Dichloropropane	1.0 U	50.6	50.0	101	51.6	50.0	103	79-124	2	30
1,3-Dichlorobenzene	1.0 U	49.6	50.0	99	51.9	50.0	104	83-121	5	30
1,4-Dichlorobenzene	1.0 U	47.7	50.0	95	50.3	50.0	101	82-120	5	30
1,4-Dioxane	40 U	845	1000	84	904	1000	90	44-154	7	30
2-Butanone (MEK)	5.0 U	46.7	50.0	93	49.1	50.0	98	61-137	5	30
2-Hexanone	5.0 U	49.0	50.0	98	52.6	50.0	105	56-132	7	30
4-Methyl-2-pentanone	5.0 U	50.9	50.0	102	52.8	50.0	106	60-141	4	30
Acetone	5.0 U	46.1	50.0	92	50.0	50.0	100	35-183	8	30
Benzene	3.2	57.5	50.0	108	58.6	50.0	111	76-129	2	30
Bromochloromethane	1.0 U	52.2	50.0	104	53.2	50.0	106	80-122	2	30
Bromodichloromethane	1.0 U	50.8	50.0	102	52.6	50.0	105	78-133	3	30
Bromoform	1.0 U	44.5	50.0	89	48.4	50.0	97	58-133	8	30
Bromomethane	1.0 U	31.5	50.0	63	39.7	50.0	79	10-184	23	30
Carbon Disulfide	1.0 U	47.6	50.0	95	49.4	50.0	99	59-140	4	30
Carbon Tetrachloride	1.0 U	49.6	50.0	99	52.6	50.0	105	65-135	6	30
Chlorobenzene	1.6	51.8	50.0	100	53.2	50.0	103	76-125	3	30
Chloroethane	23	64.4	50.0	84	65.4	50.0	86	48-146	2	30
Chloroform	1.0 U	53.3	50.0	107	55.6	50.0	111	75-130	4	30
Chloromethane	1.0 U	57.4	50.0	115	63.1	50.0	126	55-160	9	30
Cyclohexane	1.0 U	54.4	50.0	109	53.7	50.0	107	52-145	1	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.

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	05/23/24
Sample Matrix:	Water	**Date Received:**	05/24/24
		Date Analyzed:	06/4/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	BL-10	**Units:**	ug/L
Lab Code:	R2404485-009	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2406178-05			Duplicate Matrix Spike RQ2406178-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Dibromochloromethane	1.0 U	49.0	50.0	98	51.3	50.0	103	72-128	5	30
Dichlorodifluoromethane (CFC 12)	1.0 U	69.7	50.0	139	72.4	50.0	145	49-154	4	30
Dichloromethane	1.0 U	54.8	50.0	110	56.6	50.0	113	73-122	3	30
Ethylbenzene	1.0 U	51.0	50.0	102	53.1	50.0	106	72-134	4	30
Isopropylbenzene (Cumene)	1.0 U	51.7	50.0	103	52.7	50.0	105	77-128	2	30
Methyl Acetate	2.0 U	23.8	50.0	48	25.0	50.0	50	26-121	5	30
Methyl tert-Butyl Ether	0.97 J	52.1	50.0	102	54.6	50.0	107	75-119	5	30
Methylcyclohexane	1.0 U	46.8	50.0	94	46.4	50.0	93	45-146	<1	30
Styrene	1.0 U	51.5	50.0	103	53.5	50.0	107	74-136	4	30
Tetrachloroethene (PCE)	1.0 U	50.1	50.0	100	51.3	50.0	103	72-125	2	30
Toluene	1.0 U	55.1	50.0	110	54.5	50.0	109	79-119	1	30
Trichloroethene (TCE)	1.0 U	50.4	50.0	101	51.7	50.0	103	74-122	3	30
Trichlorofluoromethane (CFC 11)	1.0 U	55.4	50.0	111	57.7	50.0	115	71-136	4	30
Vinyl Chloride	1.0 U	52.7	50.0	105	55.7	50.0	111	74-159	6	30
cis-1,2-Dichloroethene	1.0 U	53.6	50.0	107	55.8	50.0	112	77-127	4	30
cis-1,3-Dichloropropene	1.0 U	47.5	50.0	95	48.7	50.0	97	52-134	2	30
m,p-Xylenes	2.0 U	104	100	104	107	100	107	80-126	3	30
o-Xylene	1.0 U	51.7	50.0	103	53.7	50.0	107	79-123	4	30
trans-1,2-Dichloroethene	0.26 J	51.0	50.0	101	53.5	50.0	107	73-118	5	30
trans-1,3-Dichloropropene	1.0 U	48.7	50.0	97	50.0	50.0	100	71-133	3	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.

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2406178-04	**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-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	06/04/24 12:02	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	06/04/24 12:02	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	06/04/24 12:02	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:02	
1,4-Dioxane	40 U	40	13	1	06/04/24 12:02	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/04/24 12:02	
2-Hexanone	5.0 U	5.0	0.20	1	06/04/24 12:02	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/04/24 12:02	
Acetone	5.0 U	5.0	5.0	1	06/04/24 12:02	
Benzene	1.0 U	1.0	0.20	1	06/04/24 12:02	
Bromochloromethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
Bromoform	1.0 U	1.0	0.25	1	06/04/24 12:02	
Bromomethane	1.0 U	1.0	0.70	1	06/04/24 12:02	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/04/24 12:02	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/04/24 12:02	
Chlorobenzene	1.0 U	1.0	0.20	1	06/04/24 12:02	
Chloroethane	1.0 U	1.0	0.23	1	06/04/24 12:02	
Chloroform	1.0 U	1.0	0.51	1	06/04/24 12:02	
Chloromethane	1.0 U	1.0	0.80	1	06/04/24 12:02	
Cyclohexane	1.0 U	1.0	0.60	1	06/04/24 12:02	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/04/24 12:02	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	06/04/24 12:02	
Dichloromethane	1.0 U	1.0	0.65	1	06/04/24 12:02	
Ethylbenzene	1.0 U	1.0	0.20	1	06/04/24 12:02	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	06/04/24 12:02	
Methyl Acetate	2.0 U	2.0	0.87	1	06/04/24 12:02	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	06/04/24 12:02	
Methylcyclohexane	1.0 U	1.0	0.20	1	06/04/24 12:02	
Styrene	1.0 U	1.0	0.20	1	06/04/24 12:02	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/04/24 12:02	
Toluene	1.0 U	1.0	0.20	1	06/04/24 12:02	

Analytical Report

Client:	ARCADIS U.S., Inc. (formerly ARCADIS of New York)	**Service Request:**	R2404485
Project:	Batavia Landfill	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2406178-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/04/24 12:02	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	06/04/24 12:02	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/04/24 12:02	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	06/04/24 12:02	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/04/24 12:02	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/04/24 12:02	
o-Xylene	1.0 U	1.0	0.20	1	06/04/24 12:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	06/04/24 12:02	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/04/24 12:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/04/24 12:02	
Dibromofluoromethane	96	80 - 116	06/04/24 12:02	
Toluene-d8	98	87 - 121	06/04/24 12:02	

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York) **Service Request:** R2404485
Project: Batavia Landfill **Date Analyzed:** 06/04/24
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2406178-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.0	20.0	105	75-125
1,1,2,2-Tetrachloroethane	8260C	18.5	20.0	92	78-126
1,1,2-Trichloroethane	8260C	20.2	20.0	101	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.4	20.0	102	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	22.0	20.0	110	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.3	20.0	102	71-118
1,2,3-Trichlorobenzene	8260C	20.0	20.0	100	67-136
1,2,4-Trichlorobenzene	8260C	20.8	20.0	104	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.0	20.0	90	55-136
1,2-Dibromoethane	8260C	20.4	20.0	102	82-127
1,2-Dichlorobenzene	8260C	20.3	20.0	102	80-119
1,2-Dichloroethane	8260C	19.7	20.0	99	71-127
1,2-Dichloropropane	8260C	20.2	20.0	101	80-119
1,3-Dichlorobenzene	8260C	21.4	20.0	107	83-121
1,4-Dichlorobenzene	8260C	21.1	20.0	105	79-119
1,4-Dioxane	8260C	346	400	86	44-154
2-Butanone (MEK)	8260C	19.3	20.0	97	61-137
2-Hexanone	8260C	18.5	20.0	92	63-124
4-Methyl-2-pentanone	8260C	17.9	20.0	90	66-124
Acetone	8260C	18.0	20.0	90	40-161
Benzene	8260C	21.1	20.0	106	79-119
Bromochloromethane	8260C	21.8	20.0	109	81-126
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	19.9	20.0	100	65-146
Bromomethane	8260C	26.5	20.0	132	42-166
Carbon Disulfide	8260C	20.6	20.0	103	66-128
Carbon Tetrachloride	8260C	18.9	20.0	95	70-127
Chlorobenzene	8260C	20.2	20.0	101	80-121
Chloroethane	8260C	16.6	20.0	83	62-131
Chloroform	8260C	21.8	20.0	109	79-120
Chloromethane	8260C	23.5	20.0	118	65-135
Cyclohexane	8260C	19.8	20.0	99	69-120
Dibromochloromethane	8260C	20.3	20.0	102	72-128

Client: ARCADIS U.S., Inc. (formerly ARCADIS of New York)
Project: Batavia Landfill
Sample Matrix: Water

Service Request: R2404485
Date Analyzed: 06/04/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2406178-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	26.0	20.0	130	59-155
Dichloromethane	8260C	22.6	20.0	113	73-122
Ethylbenzene	8260C	20.3	20.0	101	76-120
Isopropylbenzene (Cumene)	8260C	19.8	20.0	99	77-128
Methyl Acetate	8260C	14.3	20.0	72	61-133
Methyl tert-Butyl Ether	8260C	20.8	20.0	104	75-118
Methylcyclohexane	8260C	18.5	20.0	93	51-129
Styrene	8260C	21.1	20.0	105	80-124
Tetrachloroethene (PCE)	8260C	19.9	20.0	99	72-125
Toluene	8260C	20.7	20.0	103	79-119
Trichloroethene (TCE)	8260C	20.3	20.0	102	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.4	20.0	107	71-136
Vinyl Chloride	8260C	20.1	20.0	101	74-159
cis-1,2-Dichloroethene	8260C	21.5	20.0	107	80-121
cis-1,3-Dichloropropene	8260C	20.5	20.0	102	77-122
m,p-Xylenes	8260C	40.4	40.0	101	80-126
o-Xylene	8260C	21.1	20.0	105	79-123
trans-1,2-Dichloroethene	8260C	20.6	20.0	103	73-118
trans-1,3-Dichloropropene	8260C	22.3	20.0	112	71-133

Metals

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

Form 3

Blanks

Mercury by EPA 7470A,Metals by EPA 6010C

Workorder

R2404485

Client

ARCADIS

Project

Batavia Landfill

06/07/2024

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

Form 3 - Blanks

Client	ARCADIS	Workorder	
Project	Batavia Landfill	**R2404485**	

Mercury by EPA 7470A

R-CVAA-03_842683			ICB		CCB		CCB		CCB		CCB		
		Run Date	05/31/24		05/31/24		05/31/24		05/31/24		05/31/24		
		Run Time	11:46		11:55		12:20		12:38		13:03		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Mercury	0.08	0.20	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	ARCADIS	Workorder	
Project	Batavia Landfill	**R2404485**	

Metals by EPA 6010C (P)

R-ICP-AES-07_842434			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	05/29/24		05/29/24		05/29/24		05/29/24		05/29/24		05/29/24	
		Run Time	15:19		17:22		17:48		18:27		19:06		19:22	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	30	100	30	U	30	U	30	U	30	U	30	U	30	U
Antimony	11	60	11	U	11	U	11	U	11	U	11	U	11	U
Arsenic	6	10	6	U	6	U	6	U	6	U	6	U	6	U
Barium	3	20	3	U	3	U	3	U	3	U	3	U	3	U
Beryllium	0.2	3.0	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Cadmium	0.4	5.0	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Calcium	300	1000	300	U	300	U	300	U	300	U	300	U	300	U
Chromium	2	10	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	0.9	50	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Copper	4	20	4	U	4	U	4	U	4	U	4	U	4	U
Iron	70	100	70	U	70	U	70	U	70	U	70	U	70	U
Lead	3.2	5.0	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Magnesium	30	1000	30	U	30	U	30	U	30	U	30	U	30	U
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U
Nickel	3	40	3	U	3	U	3	U	3	U	3	U	3	U
Potassium	400	2000	400	U	400	U	400	U	400	U	400	U	400	U
Selenium	7	10	7	U	7	U	7	U	7	U	7	U	7	U
Silver	0.6	10	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Sodium	300	1000	300	U	300	U	300	U	300	U	300	U	300	U
Thallium	8	10	8	U	8	U	8	U	8	U	8	U	8	U
Vanadium	0.7	50	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Zinc	3	20	3	U	3	U	3	U	3	U	3	U	3	U

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	ARCADIS	Workorder	
Project	Batavia Landfill	**R2404485**	

Metals by EPA 6010C (P)

R-ICP-AES-07_842434			CCB		
		Run Date	05/29/24		
		Run Time	19:38		
		Units	ug/L		
Analyte	DL	LOQ	Result	Q	
Aluminum	30	100	30	U	
Antimony	11	60	11	U	
Arsenic	6	10	6	U	
Barium	3	20	3	U	
Beryllium	0.2	3.0	0.2	U	
Cadmium	0.4	5.0	0.4	U	
Calcium	300	1000	300	U	
Chromium	2	10	2	U	
Cobalt	0.9	50	0.9	U	
Copper	4	20	4	U	
Iron	70	100	70	U	
Lead	3.2	5.0	3.2	U	
Magnesium	30	1000	30	U	
Manganese	4	10	4	U	
Nickel	3	40	3	U	
Potassium	400	2000	400	U	
Selenium	7	10	7	U	
Silver	0.6	10	0.6	U	
Sodium	300	1000	300	U	
Thallium	8	10	8	U	
Vanadium	0.7	50	0.7	U	
Zinc	3	20	3	U	

Form 3 - Blanks

Client	ARCADIS	Workorder	
Project	Batavia Landfill	**R2404485**	

Metals by EPA 6010C (P)

R-ICP-AES-07_842611			ICB		CCB		CCB		CCB		CCB		CCB	
		Run Date	05/30/24		05/30/24		05/30/24		05/30/24		05/30/24		05/30/24	
		Run Time	17:15		17:31		18:07		18:41		19:03		19:27	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	4	10	4	U	4	U	4	U	4	U	4	U	4	U
Sodium	300	1000	300	U	300	U	300	U	300	U	300	U	300	U

Form 5A

Matrix Spike Sample Recovery

Mercury by EPA 7470A,Metals by EPA 6010C

Workorder

R2404485

Client

ARCADIS

Project

Batavia Landfill

06/07/2024

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

Form 5A - Matrix Spike Sample Recovery

Client ARCADIS | Workorder **R2404485**

Project Batavia Landfill

RunID R-CVAA-03-842683

Mercury by EPA 7470A

BL-101U (R2404485-002)				R2404485-002MS				R2404485-002DMS						
Sample Matrix	Water	**Analysis Batch**	842683	**Run Date**	05/31/24			**Run Date**	05/31/24					
Result Units	ug/L	**Prep Batch**	439241	**Run Time**	12:10			**Run Time**	12:13					
Prep Method	Method	**Prep Date**	05/30/2024	**Prep Amt**	25 mL			**Prep Amt**	25 mL					

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Mercury, Total	75-125	1	0.20U	1.0070	1.00	**101**		0.97	1.00	**97**		20	**4**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor
MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

BL-10 (R2404485-009)				R2404485-009MS				R2404485-009DMS						
Sample Matrix	Water	**Analysis Batch**	842683	**Run Date**	05/31/24			**Run Date**	05/31/24					
Result Units	ug/L	**Prep Batch**	439241	**Run Time**	12:43			**Run Time**	12:46					
Prep Method	Method	**Prep Date**	05/30/2024	**Prep Amt**	25 mL			**Prep Amt**	25 mL					

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Mercury, Total	75-125	1	0.20U	0.9780	1.00	**98**		0.98	1.00	**98**		20	**0.2**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor
MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 5A - Matrix Spike Sample Recovery

Client ARCADIS | Workorder **R2404485**

Project Batavia Landfill

RunID R-ICP-AES-07-842434

Metals by EPA 6010C (P)

BL-10 (R2404485-009)				R2404485-009MS				R2404485-009DMS						
Sample Matrix	Water	**Analysis Batch**	842434	**Run Date**	05/29/24			**Run Date**	05/29/24					
Result Units	ug/L	**Prep Batch**	439109	**Run Time**	18:46			**Run Time**	18:49					
Prep Method	EPA	**Prep Date**	05/28/2024	**Prep Amt**	50 mL			**Prep Amt**	50 mL					

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Aluminum, Total	75-125	1	100U	2069.90	2000	**103**		2075.10	2000	**104**		20	**0.3**	
Antimony, Total	75-125	1	60U	505.90	500	**101**		509.30	500	**102**		20	**0.7**	
Arsenic, Total	75-125	1	38	78.60	40	**101**		77.70	40	**98**		20	**1**	
Barium, Total	75-125	1	1060	2955.60	2000	**95**		2953.10	2000	**94**		20	**0.1**	
Beryllium, Total	75-125	1	3.0U	47.60	50.0	**95**		47.40	50.0	**95**		20	**0.4**	
Cadmium, Total	75-125	1	0.4J	48.90	50.0	**97**		48.70	50.0	**97**		20	**0.4**	
Calcium, Total	75-125	1	114000	116191.7	2000	NC		116106	2000	NC		20	**0.1**	
Chromium, Total	75-125	1	10U	200.50	200	**100**		200.50	200	**100**		20	**0**	
Cobalt, Total	75-125	1	7J	474.90	500	**94**		474.30	500	**94**		20	**0.1**	
Copper, Total	75-125	1	20U	252	250	**101**		250.10	250	**100**		20	**0.8**	
Iron, Total	75-125	1	14100	15105.50	1000	NC		15116	1000	NC		20	**0.1**	
Lead, Total	75-125	1	5.0U	480.80	500	**96**		482.40	500	**96**		20	**0.3**	
Magnesium, Total	75-125	1	96200	98732.40	2000	NC		98542	2000	NC		20	**0.2**	
Manganese, Total	75-125	1	22	489.40	500	**94**		489.30	500	**93**		20	**0**	
Nickel, Total	75-125	1	10J	498	500	**98**		497.90	500	**98**		20	**0**	
Potassium, Total	75-125	1	28000	49453.10	20000	**107**		49229.70	20000	**106**		20	**0.5**	
Selenium, Total	75-125	1	10U	1036.10	1010	**103**		1032.10	1010	**102**		20	**0.4**	
Silver, Total	75-125	1	10U	51.40	50	**103**		51.10	50	**102**		20	**0.6**	
Sodium, Total	75-125	1	153000	174023.4	20000	NC		173179.3	20000	NC		20	**0.5**	
Thallium, Total	75-125	1	10U	1872.30	2000	**94**		1912.10	2000	**96**		20	**2**	
Vanadium, Total	75-125	1	0.7J	486.10	500	**97**		485	500	**97**		20	**0.2**	
Zinc, Total	75-125	1	6J	499.60	500	**99**		499.40	500	**99**		20	**0**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor

MS\D Matrix Spike \Duplicate **OOL** Out of Limits * %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 7

Laboratory Control Sample

Metals by EPA 6010C,Mercury by EPA 7470A

Workorder

R2404485

Client

ARCADIS

Project

Batavia Landfill

06/07/2024

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

Form 7 - Laboratory Control Sample

Client	ARCADIS	Workorder	
Project	Batavia Landfill	**R2404485**	

RunID

Mercury by EPA 7470A

R-CVAA-03-842683

R-CVAA-03_842683			R2404485-LCS		
Spike Matrix	Water	**Result Units**	ug/L	**Run Date**	05/31/24
Prep Date	05/30/24	**Analysis Batch**	842683	**Run Time**	12:00
Prep Method	Method	**Prep Batch**	439241	**Prep Amt**	25 mL

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Mercury, Total	80-120	1.00	1.02	**102**	

Form 7 - Laboratory Control Sample

Client ARCADIS

Project Batavia Landfill

Workorder
R2404485

RunID
R-ICP-AES-07-842434

Metals by EPA 6010C (P)

R-ICP-AES-07_842434				R2404485-LCS	
Spike Matrix	Water	**Result Units**	ug/L	**Run Date**	05/29/24
Prep Date	05/28/24	**Analysis Batch**	842434	**Run Time**	17:55
Prep Method	EPA 3005A/3010A	**Prep Batch**	439109	**Prep Amt**	50 mL

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Aluminum, Total	80-120	2000	2000	**100**	
Antimony, Total	80-120	500	501	**100**	
Arsenic, Total	80-120	40	39	**97**	
Barium, Total	80-120	2000	1930	**96**	
Beryllium, Total	80-120	50.0	47.0	**94**	
Cadmium, Total	80-120	50.0	50.4	**101**	
Calcium, Total	80-120	2000	2000	**99**	
Chromium, Total	80-120	200	200	**100**	
Cobalt, Total	80-120	500	489	**98**	
Copper, Total	80-120	250	250	**100**	
Iron, Total	80-120	1000	990	**99**	
Lead, Total	80-120	500	501	**100**	
Magnesium, Total	80-120	2000	1900	**95**	
Manganese, Total	80-120	500	474	**95**	
Nickel, Total	80-120	500	504	**101**	
Potassium, Total	80-120	20000	19400	**97**	
Selenium, Total	80-120	1010	999	**99**	
Silver, Total	80-120	50	50	**100**	
Sodium, Total	80-120	20000	20200	**101**	
Thallium, Total	80-120	2000	1980	**99**	
Vanadium, Total	80-120	500	478	**96**	
Zinc, Total	80-120	500	494	**99**	

Attachment 2

BATAVIA LANDFILL SUPERFUND SITE
BATAVIA , NEW YORK
SITE INSPECTION FORM

Date: 24-May-24 Inspectors: BKW and KCF
Weather: Sunny, 70

Inspection Items	Acceptable Yes	Acceptable No	Comments/Conditions
1 General Area Conditions			
Appearance	X		Large pile of gravel in front of gate leading
Perimeter Fence/Warning Signs	X		to Monitoring wells BL-100U through
Litter	X		BL-105L
2 Access Road Conditions			
Surface	X		
Accessibility	X		
3 Vegetation and Final Cover Conditions			
Grass Growth	X		
Bare Spots	X		
Erosion	X		
Settlement	X		
Ponding Water	X		
Protruding Objects	X		
Animal Burrows	X		
Presence of Trees/Brush	X		
Leachate Outbreaks	X		
4 Storm Water Drainage System Conditions			
Mid-slope Drainage Swales	X		
NW Flow Spreader	X		
NE Flow Spreader	X		
Perimeter Drainage Ditches	X		
Anchor Trench Drain Pipe Outlets (4)	X		
5 Leachate Handling System Conditions			
LCP Clean Outs (8)	X		
Manhole MH-1	X		animal burrowing observed
Manhole MH-2	X		
Manhole MH-3	X		
Leachate Pumping Manhole	X		
Leachate Storage Tank (LST)	X		
LST Secondary Containment	X		
LST Piping and Instruments	X		
LST Concrete Truck Pad and Sump	X		
Leachate Level in LST	X		19.52%
6 Gas Venting System Conditions			
Gas Vents (17)	X		
Vegetation Adjacent to Vents	X		
7 Groundwater Monitoring Well Conditions			
Well Casings	X		
Well Locks	X		
8 Wetlands			
General Conditions	X		
Vegetation	X		
Water Levels	X		
9 Others (list)			
			grass on landfill needs to be mowed

Arcadis of New York, Inc.
100 Chestnut Street, Suite 1020
Rochester
New York 14604
Phone: 585 385 0090
Fax: 585 546 1973
www.arcadis.com