Cortland County Soil and Water Conservation District
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SWCD...established to promote the conservation and wise use of our county's natural resources

March 7, 2024

Stephanie Fitzgerald
NYSDEC – Division of Environmental Remediation
615 Erie Blvd. West
Syracuse, NY 13204-2400

Dear Ms. Fitzgerald:

Enclosed is the 2023 Quarter 3 Environmental Monitoring Report for Cortland County's Towslee Landfill, also known as the Old Cortland County Landfill. Included are PFAS and 1,4-dioxane results for 2023.

Please contact our office at (607) 756-5991 if you have any questions.

Sincerely,

Chad Hill
Conservation Assistant

cc: Charles Sudbrink, Cortland Co. Highway Dept.
James Gruppe, NYSDEC Region 7
Amanda Barber, SWCD/file

Environmental Monitoring Report
Towslee Landfill, Cortland County, NY

Quarter 3, 2023

Prepared for

Cortland County Highway Department

By

Cortland County Soil and Water Conservation District

March 7, 2024

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Section 1: Introduction

Towslee Landfill is approximately 36 acres in size, and is part of a larger solid waste disposal site of 540 acres owned by Cortland County in the Towns of Cortlandville and Solon. The Towslee Landfill has previously been called the Old County Landfill and the Town Line Landfill.

The NYSDEC requires environmental monitoring at the landfill. The monitoring follows the Post-Closure Monitoring and Site Maintenance Plan prepared by Barton & Loguidice, D.P.C (B&L) in October, 2002 and revised in June, 2006. Towslee Landfill is required to be monitored during Quarters 2-4. Of these three quarters, one quarter is monitored for Baseline parameters and two quarters are monitored for Routine parameters. The Baseline quarter rotates among the three quarters.

This report summarizes 3rd Quarter 2023 (Baseline) monitoring activities at the Towslee Landfill.

Section 2: Site History

Placement of waste at Towslee began in the 1940s by a private disposal company. In the 1960s, the site was leased to the City of Cortland for waste disposal. In 1972, Cortland County purchased the site and began landfill operations at Towslee Landfill. Towslee Landfill was open for disposal of municipal solid waste until 1987 and for construction and demolition debris until 1992.

A Remedial Investigation/Feasibility Study (RI/FS) was conducted for Cortland County by Barton and Loguidice (B&L) in response to NYSDEC Order of Consent #B7-0486-12-95, effective May 31, 1996. The Towslee Landfill was classified by NYSDEC as a Class 2 Inactive Hazardous Waste Site. The Remedial Investigation was completed in March, 1998 and the Feasibility Study was completed in July, 1998.

DEC issued a Record of Decision (ROD) in March, 1999. Remedial activities at the landfill, which included landfill capping, were substantially completed in December 2001 and the Towslee Landfill was reclassified as a Class 4 Inactive Hazardous Waste Site, assigned site number 7-12-001.

The B&L Remedial Investigation concluded in 1997 that there was mild landfill leachate contamination of groundwater in the vicinity of Wells MW-2A/B and MW-7A. In addition, low-level leachate contamination was detected in the vicinity of Well MW-1A. Groundwater contamination occurred primarily in the overburden and extended downgradient of the site about 450 feet.

Section 3: Methods

3.1 Schedule

Quarter	Analysis	Date(s) Sampled
1	-- Sampling not required --	
2	Routine	June 5-6, 2023
3	Baseline*	September 12-14, 2023
4	Routine	TBD

* includes PFAS and 1,4-dioxane at some wells

3.2 Monitoring Locations

Groundwater: Thirteen wells are monitored at Towslee Landfill (**Figure 1**) including one each bedrock and overburden upgradient wells, as well as seven bedrock wells and four overburden downgradient wells:

Upgradient	Bedrock	Overburden
	CD-1RA	CD-1
Downgradient	Bedrock	Overburden
	MW-1B	MW-1A
	MW-2B	MW-2A
	MW-3A	MW-6A
	MW-3B	MW-7A
	MW-4A	
	MW-5A	
	MW-6B	

Combustible Gas: Testing for the presence of combustible gas (methane) is conducted associated with landfill monitoring. All of the wells and the scale house basement (ambient air) are monitored during Quarters 2-4.

3.3 Sampling and Analysis:

Water quality analyses were conducted in accordance with 1998 Part 360 regulations. Cortland County Soil and Water Conservation District staff conducted methane monitoring and collected water samples and field parameter data. Eurofins TestAmerica Laboratories, Inc. (TestAmerica) performed all laboratory analyses for this quarter:

Eurofins TestAmerica Laboratories, Buffalo (NYELAP # 10026)
10 Hazelwood Drive
Amherst, NY 14228-2223

In this quarter, Baseline parameters were sampled for at all locations. When turbidity exceeded 50 NTU, a sample was collected for dissolved metals analysis in addition to total metals. In addition, combustible gas was monitored at each well.

During this quarter, in addition to Baseline parameters, PFAS and 1,4-dioxane were sampled for at 8 wells: CD-1, CD-1RA, MW-1A, MW-1B, MW-2A, MW-2B, MW-6A and MW-6B.

The gas monitoring data and field data sheets for this quarter can be found in **Appendix A**. The UDS Level 2 and Category B laboratory analytical reports have been included as **Appendix B**. The full Towslee data record is available from the Cortland County SWCD upon request.

Groundwater data are compared to NYS water quality/drinking water standards to assess current conditions. **Tables 1-4** summarize results for the groundwater monitoring wells. Contraventions of NYS standards are highlighted.

Section 4: Groundwater Monitoring Results

4.1 Contraventions of Groundwater Quality Standards

Conventional and Field Parameters

Turbidity - Turbidity exceeded the NYS standard of 5 NTU at both upgradient wells CD-1 (98.4 NTU) and CD-1RA (13.8 NTU), as well as 7 of the 11 downgradient wells, with exceedances ranging from 7.23 NTU to >100 NTU.

No other conventional or field parameters exceeded water quality standards at the upgradient wells.

pH - The water quality standard for pH is contravened unless the result is between 6.5 and 8.5. The pH of samples collected from 2 of the 11 downgradient wells (MW-2A and MW-3A) was lower than the lower limit of the standard, which had pH results of 6.45 and 5.97, respectively.

Color – Samples collected from monitoring wells MW-2A, MW-3A and MW-7A showed exceedances of the color standard of 15 Color Units, which were 35 CU, 50 CU and 25 CU, respectively.

Ammonia - The ammonia standard of 2 mg/L was exceeded at MW-2A (7.4 mg/L), consistent with past findings at this well.

Total Dissolved Solids (TDS) - The TDS standard of 500 mg/L was exceeded at MW-2B (683 mg/L).

No other conventional or field parameters exceeded water quality standards at downgradient wells.

Metals

Iron - The NYS standard for total iron is 0.3 mg/L, and is an aesthetic standard. This standard was exceeded at both upgradient wells CD-1 (16.1 mg/L) and CD-1RA (2.2 mg/L) as well as 6 of the 11 downgradient wells, with an exceedance range of 0.36 – 25.9 mg/L. Iron frequently exceeds the standard at the Towslee Landfill. The elevated iron levels are believed to be caused at least in part by particulates in the unfiltered samples.

Manganese - The NYS standard for total manganese is 0.3 mg/L and is an aesthetic standard. The standard for total manganese was exceeded at upgradient well CD-1 (3.0 mg/L) and 7 of the 11 downgradient wells, with an exceedance range of 0.39 – 8.4 mg/L, including exceedance of dissolved manganese at downgradient well MW-6A. The manganese standard has frequently been exceeded in past monitoring, which may be caused in part by particulates in unfiltered samples.

No other metals contravened water quality standards at upgradient wells.

Sodium - The NYS sodium guidelines for people on severely and moderately restricted sodium diets are 20 mg/L and 270 mg/L, respectively. The severely restrictive diet guideline was exceeded for total sodium at 4 of the 11 downgradient wells, with an exceedance range of 38.4 – 48.6 mg/L, including exceedances of dissolved sodium at downgradient well MW-6A. The moderately restrictive diet guideline was not exceeded at any wells during this quarter.

Barium - The barium standard of 1.0 mg/L was exceeded at two downgradient wells, MW-2B (1.1 mg/L) and MW-4A (1.1 mg/L).

No other metals contravened water quality standards at downgradient wells.

Volatile Organic Compounds (VOCs)

cis-1,2-dichloroethene - The NYS standard for cis-1,2-dichloroethene of 5 μg/L was exceeded at one downgradient well, MW-2B (44 μg/L). This is not unusual at this well.

Vinyl chloride - The NYS standard for vinyl chloride of 2 μg/L was exceeded at one downgradient well, MW-2B (16 μg/L). This is not unusual at this well.

No other volatile organic compounds contravened water quality standards at any wells.

Emerging Contaminants

PFAS – PFAS exceedances of the NYS Water Quality Standard (WQS) of 10 ng/L occurred at two wells, MW-2A and MW-2B. Specific PFAS parameters exceeding the WQS included perfluorobutanoic acid (PFBA; MW-2B, 13 ng/L), perfluorohexanoic acid (PFHxA; MW-2B, 17 ng/L), perfluorooctanesulfonic acid (PFOS; MW2A, 36 ng/L; MW2B, 13 ng/L) and

perfluorooctanoic acid (PFOA; MW2A, 29 ng/L; MW2B, 21 ng/L). These results are consistent with 2019 sampling.

1,4-dioxane – 1,4-dioxane exceeded the WQS of 1 ug/L at MW-2A (1.4 ug/L) and MW-2B (13 ug/L). These results are consistent with 2019 sampling.

Section 5: Landfill Gas Testing

Landfill gas measurements were taken at all monitoring wells as well as ambient locations, on and off Landfill property. Methane was not detected at any of the wells or other ambient locations monitored during this quarter.

Section 6: Quality Control

Independent data validation for Baseline monitoring of Quarter 3 was conducted by Dataval, Inc. With respect to Quarter 3 data, Dataval concludes that "data from this group of samples is felt to be technically correct and completely usable in its present form." The data validation report is included in **Appendix C**.

The analytical laboratory, Eurofins TestAmerica, conducted standard internal QA/QC on the samples. Of 1,704 data records, 19 records (1.12%) were flagged because they did not meet laboratory QA/QC requirements.

The analytical data appear to be an adequate characterization of Towslee Landfill groundwater quality for this quarter.

Towslee Landfill
Cortland County, NY
Quarter 3, 2023

Table 1

Analytical Results and Contraventions of NYS Water Quality Standards for Field and Conventional Parameters

Parameter	Units	NYS Water Quality Standard	Upgradient		Downgradient										
			OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB
			CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Temperature	°C	~	12.6	12.1	18.3	14	16.5	16.5	15.2	12.8	14.5	15.4	15.1	13.1	15.8
Eh/ORP	mV	~	250	262.3	208.5	211.3	61.1	114	209.8	239.4	209.8	179.2	163.4	231	222.4
pH	~	6.5 - 8.5 a	7.88	7.87	7.89	8.03	**6.45**	6.67	**5.97**	7.4	7.2	7.24	6.5	6.85	6.75
Conductivity	µS/cm	~	175.8	182.6	263.9	128.6	348.3	851	103.6	213.7	533	216.7	467	318.6	511
Color	Units	15 a,b	10	10	5	5	**35**	10	**50**	10	15	5	10	10	**25**
Turbidity	NTU	5 a	**98.4**	**13.8**	**7.23**	1.02	**20.7**	1.46	**7.61**	2.5	**8.43**	**9.5**	**390** NTRU	**8.02**	1.68
Alkalinity as $CaCO_3$	mg/L	~	138	149	126	96.2	268	620	73.1	151	462	151	184	153	393
Hardness as $CaCO_3$	mg/L	~	178	157	165	88	207	582	100	169	436	178	293	196	351
Total Dissolved Solids	mg/L	500 a	155	164	219	88	259	**683**	105	185	464	183	393	282	406
Chloride	mg/L	250 a,b	1.1	1.4	35.3	5	11.3	86.5	1.6	21	9.9	3.6	121	70.7	29.3
Sulfate	mg/L	250 a,b	16.4	15.4	16.1	8.1	<5	<5	<5	9.1	<5 F2 F1	17.7	<5	11.7	<5
Bromide	mg/L	2 a	<0.2	<0.2	<0.2	<0.2	<0.4	0.62	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.4
NO_3	mg/L	10 a,b,c	<0.05	<0.05	<0.05	<0.05	0.17	<0.05	0.09	<0.05	0.079	0.078	0.069	0.12	0.15
NH_3	mg/L	2 a,c	0.021	0.057	0.065	0.024	**7.4**	0.66	0.06	0.045	0.026	<0.02	0.23	0.053	0.048
TKN	mg/L	~	0.36	<0.2	<0.2	<0.2	6	1.1	0.66	<0.2	0.29	<0.2	1.8	0.2	0.5
COD	mg/L	~	<10	<10	<10	<10	<10 F1	<10	30.4	<10	<10	<10	33.4	<10	18.1
BOD	mg/L	~	<2	<2	<2	<2	<2	<2	4.6	<2	<2	3.3 *-	3.8 *-	<2 *-	<2
TOC	mg/L	~	<1	<1	<1	<1	4.4	3.6	8	<1	1.5	<1	4.1	<1	5.8
Total Phenolics	mg/L	0.001 a,c	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 F1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	mg/L	0.2 a,b,c	0.01 F1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	0.011	0.034	0.012	<0.01 F1	<0.01

a - Part 703 Water Quality Standard (Class GA waters)
b - Part 5 Drinking Water MCL
c - TOGS 1.1.1 (Class GA waters)
X.XX indicates contravention of standard.
~ = No Data Available

OB - overburden well
BR - bedrock well
J - value is estimated because sample did not meet laboratory QAQC protocols

Towslee Landfill
Cortland County, NY
Quarter 3, 2023

Table 2

Analytical Results and Contraventions of NYS Water Quality Standards for Metals (mg/L)

Parameter	NYS Water Quality Standard	Total Metals													Dissolved Metals
		Upgradient		Downgradient											Downgradient
		OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB	OB
		CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A	MW-6A
Aluminum	~	11.7	1.7	1	<0.2	<0.2	<0.2	0.57	<0.2	0.46	0.52	17.1	0.26	1	<0.2
Antimony	0.003 a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.025 a	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.023	<0.015	<0.015	<0.015
Barium	1 a	0.27	0.17	0.11	0.17	0.32	**1.1**	0.39	0.18	**1.1**	0.64	0.58	0.41	0.3	0.24
Beryllium	0.004 b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	1 a	<0.02	<0.02	0.021	<0.02	0.19	0.19	<0.02	0.028	0.084	0.02	0.03	0.02	0.27	<0.02
Cadmium	0.005 a,b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium	~	49.1	45.3	47.8	25.3	62.3	172	30.4	45.5	128	49.6	91.8	56.6	105	78.1
Chromium	0.05 a	0.018	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.022	<0.004	<0.004	<0.004
Chromium (VI)	0.05 a	<0.01 H	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01 H F1	<0.01 H	<0.01 H	<0.01	~
Cobalt	~	0.0072	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.026	<0.004	<0.004	<0.004
Copper	0.2 a	0.019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.028	<0.01	<0.01	<0.01
Iron	0.3 a,b	**16.1**	**2.2**	**1.4**	<0.05	**2.2**	0.29	**0.64**	0.094	0.25	**0.36**	**25.9**	0.21	**1.7**	<0.05
Lead	0.015 b	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01
Magnesium	~	13.3	10.6	11	6.1	12.5	36.8	5.8	13.5	28.3	13.2	15.5	13.3	21.8	10.3
Manganese	0.3 a,b	**3**	0.26	**1.7**	0.16	**8.4**	**4.9**	**0.39**	0.052	**0.64**	0.12	**3.1**	0.094	**2**	**1.5**
Mercury	0.0007 a	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	~
Nickel	0.1 a	0.016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
Potassium	~	3.9	1.2	1.3	<0.5	9.2	2.2	1.2	1	1.6	1.4	6	1.4	2.5	2.5
Sodium	20 a,b	4.3	5.2	12.7	6.7	11.4	**41.3**	2.9	8.2	17.1	9.5	**48.5**	**38.4**	**48.6**	**47.2**
Selenium	0.01 a	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Silver	0.05 a	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Thallium	0.002 b	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	~	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	<0.005	<0.005
Zinc	5 b	0.043	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	0.017	0.014	0.058	<0.01	0.15	<0.01

a - Part 703 Water Quality Standard (Class GA waters)
b - Part 5 Drinking Water MCL
c - TOGS 1.1.1 (Class GA waters)
X.XX indicates contravention of standard.
~ = No Data Available

OB - overburden well
BR - bedrock well
J - value is estimated because sample did not meet laboratory QAQC protocols
Units reported in mg/L

Towslee Landfill
Cortland County, NY
Quarter 3, 2023

Table 3

Analytical Results and Contraventions of NYS Water Quality Standards for Organics (ug/L)

Parameter*	NYS Water Quality Standard	Total Organics (μg/L)												
		Upgradient		Downgradient										
		OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB
		CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Vinyl chloride	2 b,c	<1	<1	<1	<1	<1	**16**	<1	<1	<1	<1	<1	<1	<1
Chloroethane	5 b,c	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1	<1	<1	<1
Acetone	50 b	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 *+	<10 *+	<10 *+	<10
Methylene chloride	5 b,c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	5 b,c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	5 b,c	<1	<1	<1	<1	<1	**44**	<1	<1	<1	<1	<1	<1	2.5
1,1-Dichloroethane	5 b,c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1
Benzene	1 b,c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	5 b,c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	5 b,c	<1	<1	<1	<1	1.9	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	5 b,c	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, Total	5 b	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	5 b	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1

* List contains only compounds detected in current or past monitoring events

a - Part 703 Water Quality Standard (Class GA waters)

b - Part 5 Drinking Water MCL

c - TOGS 1.1.1 (Class GA waters)

X.XX indicates contravention of standard.

OB - overburden well

BR - bedrock well

J - value is estimated because sample did not meet laboratory QAQC protocols

Units reported in ug/L

Towslee Landfill
Cortland County, NY
Quarter 3, 2023

Table 4

Analytical Results and Contraventions of NYS Water Quality Standards for the Emerging Contaminants PFAS and 1,4-dioxane

with Comarison to Previous Sampling in Quarter 2, 2019.

PARAMETER	Units	NYS Water Quality Standard	UPGRADIENT				DOWNGRADIENT											
			CD-1		CD-1RA		MW-1A		MW-1B		MW-2A		MW-2B		MW-6A		MW-6B	
			2019	2023	2019	2023	2019	2023	2019	2023	2019	2023	2019	2023	2019	2023	2019	2023
6:2 FTS	ng/L	10	<18	<4.5	<18	<4.5	<16	<4.6	<17	<4.3	<88	<4.3	<85	<4.2	<85	<4.6	<18	<4.3
8:2 FTS	ng/L	10	<18	<1.8	<18	<1.8	<16	<1.8	<17	<1.7	<88	<1.7	<85	<1.7	<85	<1.8	<18	<1.7
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ng/L	10	<18	<4.5	<18	<4.5	<16	<4.6	<17	<4.3	<88	<4.3	<85	<4.2	<85	<4.6	<18	<4.3
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ng/L	10	<18	<4.5	<18	<4.5	<16	<4.6	<17	<4.3	<88	<4.3	<85	<4.2	<85	<4.6	<18	<4.3
Perfluorobutanesulfonic acid (PFBS)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	2.2	<8.5	<1.8	<1.8	<1.7
Perfluorobutanoic acid (PFBA)	ng/L	10	<1.8	<4.5	<1.8	<4.5	<1.6	<4.6	<1.7	<4.3	<8.8	8.5	**13**	**13**	<8.5	<4.6	<1.8	<4.3
Perfluorodecanesulfonic acid (PFDS)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluorodecanoic acid (PFDA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	2.0	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluorododecanoic acid (PFDoA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluoroheptanesulfonic Acid (PFHpS)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluoroheptanoic acid (PFHpA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	4.8	9.4	7.5	<8.5	<1.8	<1.8	<1.7
Perfluorohexanesulfonic acid (PFHxS)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	2.5	<8.5	3.9	<8.5	<1.8	<1.8	<1.7
Perfluorohexanoic acid (PFHxA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	5.4	**18**	**17**	<8.5	<1.8	<1.8	<1.7
Perfluorononanoic acid (PFNA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluorooctanesulfonamide (FOSA)	ng/L	10	<9.1	<1.8	<9	<1.8	<8.1	<1.8	<8.6	<1.7	<44	<1.7	<42	<1.7	<43	<1.8	<9	<1.7
Perfluorooctanesulfonic acid (PFOS)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	**31**	**36**	**13**	**13**	<8.5	<1.8	4.1	<1.7
Perfluorooctanoic acid (PFOA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	1.9	<1.7	<1.7	**16**	**29**	**23**	**21**	<8.5	<1.8	<1.8	<1.7
Perfluoropentanoic acid (PFPeA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	3.3	<8.5	8.2	<8.5	<1.8	<1.8	<1.7
Perfluorotetradecanoic acid (PFTeA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluorotridecanoic acid (PFTriA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
Perfluoroundecanoic acid (PFUnA)	ng/L	10	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.7	<1.7	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.7
1,4-dioxane	µg/L	1	<0.2	<0.2	<0.2	<0.2	<0.2	0.29	0.31	<0.2	**2.7**	**1.4**	**16**	**13**	<0.2	<0.2	<0.2	<0.2

X detected < WQS

X.XX indicates detection in exceedance of standard.

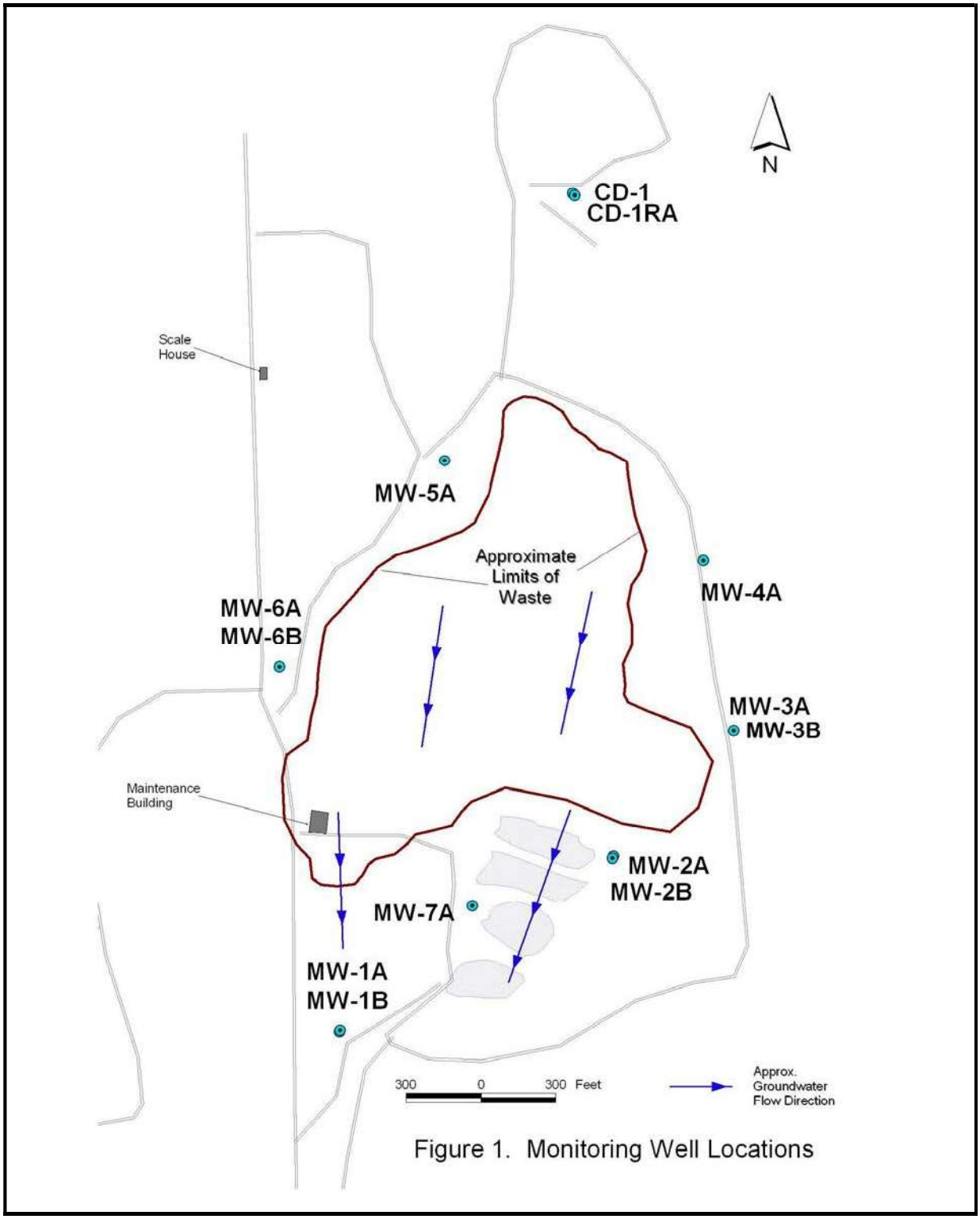

Figure 1. Monitoring Well Locations

Appendix A

Field Data Sheets

Landfill	Towslee	**Year, Quarter**	2023, 3
		Date	9/11/23
		Initials	CH

Time	ID	Sample Location	%CH4	
09.45	CD-1/CD-1RA	GW monitoring well	0.00	0.00
1050	MW-1A/B	GW monitoring well	0.00	0.00
1400	MW-2A/B	GW monitoring well	6.00	0.00
1020	MW-3A/B	GW monitoring well	0.06	0.00
1005	MW-4A	GW monitoring well	0.00	
0930	MW-5A	GW monitoring well	0.00	
0900	MW-6A/B	GW monitoring well	0.00	0.00
1105	MW-7A	GW monitoring well	0.00	
1115	Scale House	Basement Ambient	0.00	

Weather	Overcast, scattered showers, 60°F, calm
Equipment	GEM-2000

Don't prepurge

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID CD-1

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 1100

Weather 65°; cloudy, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 24.3 Purge Volume Goal (gal) 6.5

Depth to Water (ft.; from top of PVC) 11.73 Actual Volume Purged (gal) 6.5

12.57

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1100	98.4	12.6	2.68	175.8	7.88	250.0

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Can have high turbidity but can be avoided

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

May not need to prepurge

PUMP!

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID CD1-RA

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 1110

Weather 65°, cloudy, Lt wind

Method of Sampling: ~~Bailer~~ Grab Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 50.3 Purge Volume Goal (gal) 21.0

Depth to Water (ft.; from top of PVC) 9.15 Actual Volume Purged (gal) 21.0

41.15

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1110	13.8	12.1	2.26	182.6	7.87	262.3

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Can have high turbidity but can be avoided

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

Usually ARTESIAN

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-1A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 ~~1425~~ 1430

Weather 65°, overcast, Lt Wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 33.50 Purge Volume Goal (gal) 17.0

Depth to Water (ft.; from top of PVC) 0.0 Actual Volume Purged (gal) 1.0

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1430 ~~1425~~	7.23	18.3	4.07	263.9	7.89	208.5

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Can have high turbidity but can be avoided

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

Usually ARTESIAN

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-1B

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 ~~1430~~ 1425

Weather 65°, overcast, Lt Wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 55.5 Purge Volume Goal (gal) 28.0

Depth to Water (ft.; from top of PVC) 0.0 Actual Volume Purged (gal) 1.0

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
~~1425~~ ~~1430~~	1.02	14.0	2.45	128.6	8.03	211.3

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Can have high turbidity but can be avoided

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-2A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 1335

Weather 65°, Sunny, Lt Wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 12.5 Purge Volume Goal (gal) 2.5

Depth to Water (ft.; from top of PVC) 8.19 / 4.31 Actual Volume Purged (gal) 2.5 9/12 LF

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1335	20.7	16.5	2.39	348.3	6.45	61.1

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: High turbidity most quarters

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-2B

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 1345

Weather 65°, Sunny, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 33.0 Purge Volume Goal (gal) ~~11.5~~ 8 9/12 LF

Depth to Water (ft.; from top of PVC) 10.35 Actual Volume Purged (gal) 8

22.65

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1345	1.46	16.5	3.85	851.0	6.67	114.0

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-3A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13 12:40

Weather 65°, overcast, 4+ wind

Method of Sampling: ~~Bailer~~ Grab Dedicated? ~~YES~~ NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 22.0 Purge Volume Goal (gal) 5.5

Depth to Water (ft.; from top of PVC) 11.25 / 10.75 Actual Volume Purged (gal) 4 9/12 LF

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1240	7.61	15.2	2.76	103.6	5.97	209.8

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-3B

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 12:45

Weather Sunny, 65°, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 44.0 Purge Volume Goal (gal) 12.5

Depth to Water (ft.; from top of PVC) 19.48 Actual Volume Purged (gal) 9 9/12 LF

24.52

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1245	2.50	12.8	5.29	213.7	7.40	232.4

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☑ No

Other: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-4A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 1215

Weather 65°, overcast, Lt wind

Method of Sampling: ~~Bailer~~ Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 32.40 Purge Volume Goal (gal) 11.5

Depth to Water (ft.; from top of PVC) 9.62 Actual Volume Purged (gal) 5 9/12 LF

22.78

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1215	8.43	14.5	4.24	533.0	7.20	209.8

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Blockage at 22.9'

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-5A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/12/23 1445

Weather Sunny, 70°F, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 32.30 Purge Volume Goal (gal) 10.0

Depth to Water (ft.; from top of PVC) 12.82 Actual Volume Purged (gal) 3 9/12 LF

19.48

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1445	9.50	15.4	7.10	216.7	7.24	179.2

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Blockage at 18'

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date:_____ By:_____ Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-6A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/12/23 1330

Weather 70° F, sunny, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 18.6 Purge Volume Goal (gal) 2.5

Depth to Water (ft.; from top of PVC) 14.38 Actual Volume Purged (gal) 2.5 9/11 CH

4.3

SAMPLING DATA:

Time	Turbidity ~~(ANTU)~~ NTU	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1330	390	15.1	2.65	467.0	6.50	163.4

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: High turbidity most quarters

NTRU used + Dissolved metals

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/12/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-6B

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/12/23 1410

Weather 70°F, Sunny, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 40.30 Purge Volume Goal (gal) 12.6

Depth to Water (ft.; from top of PVC) 16.48 Actual Volume Purged (gal) 6.0 9/11 CH

23.82

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1410	8.02	13.1	4.51	318.6	6.85	231.0

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: ~~+ Dissolved~~

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/12/23 By: CH Agency: Cortland Co SWCD

PREPURGE

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID MW-7A

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 1455

Weather 65°, overcast, Lt wind

Method of Sampling: Bailer Grab Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 22.0 Purge Volume Goal (gal) 8.5

Depth to Water (ft.; from top of PVC) 5.16 / 16.84 Actual Volume Purged (gal) 8.5 9/12 LF

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
1455	1.68	15.8	3.82	511.0	6.75	222.4

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ Yes ☒ No

Other: Can have high turbidity but can be avoided

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2023 Quarter 3

Landfill Towslee Sample Point ID DUPE

Field Personnel CH Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/23 —

Weather 65°, overcast, Lt wind

Method of Sampling: (Bailer) Grab Dedicated? (YES) NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 22.0 Purge Volume Goal (gal) —

Depth to Water (ft.; from top of PVC) — Actual Volume Purged (gal) —

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
—	6.31	16.4	3.70	493.6	6.77	222.4

COMMENTS AND OBSERVATIONS:

Floaters/Sinkers Present? ☐ **Yes** ☒ **No**

Other: Can have high turbidity but can be avoided

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/23 By: CH Agency: Cortland Co SWCD

Appendix B

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hill
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, New York 13045

Generated 9/27/2023 12:24:54 PM

JOB DESCRIPTION

Towslee Landfill - Baseline
Towslee Landfill - Baseline

JOB NUMBER

480-212610-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization

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Table of Contents

Definitions/Glossary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-212610-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-212610-1

Receipt
The samples were received on 9/13/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-683500 recovered outside control limits for the following analytes: Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-5A (480-212610-1), MW-6A (480-212610-2) and MW-6B (480-212610-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010C: The recovery of post spike, (480-212610-T-2-B PDS), associated with batch 480-684205, exhibited results outside quality control limits for Total Calcium and Sodium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 2120B: The following samples were filtered prior to analysis, therefore the analytical results are being report as "True Color": MW-5A (480-212610-1) and MW-6A (480-212610-2)

Method SM 5210B: The glucose-glutamic acid standard (LCS) recovered outside the recovery limits specified in the method in batch 480-683355. The method holding time had expired, therefore the analysis was not repeated. The data was qualified and reported.

Method 7196A: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-5A (480-212610-1), MW-6A (480-212610-2) and MW-6B (480-212610-3).

Method 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 683376 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-5A
Lab Sample ID: 480-212610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.52		0.20		mg/L	1		6010C	Total/NA
Barium	0.64		0.0020		mg/L	1		6010C	Total/NA
Boron	0.020		0.020		mg/L	1		6010C	Total/NA
Calcium	49.6		0.50		mg/L	1		6010C	Total/NA
Iron	0.36		0.050		mg/L	1		6010C	Total/NA
Magnesium	13.2		0.20		mg/L	1		6010C	Total/NA
Manganese	0.12		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.4		0.50		mg/L	1		6010C	Total/NA
Sodium	9.5		1.0		mg/L	1		6010C	Total/NA
Zinc	0.014		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	178		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	151		50.0		mg/L	5		310.2	Total/NA
Cyanide, Total	0.034		0.010		mg/L	1		335.4	Total/NA
Nitrate as N	0.078		0.050		mg/L	1		353.2	Total/NA
Chromium, hexavalent	0.010	H F1	0.010		mg/L	1		7196A	Total/NA
Sulfate	17.7		5.0		mg/L	1		9038	Total/NA
Color	5.00		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	183		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	3.6		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	3.3	*-	2.0		mg/L	1		SM 5210B	Total/NA

Client Sample ID: MW-6A
Lab Sample ID: 480-212610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17.1		0.20		mg/L	1		6010C	Total/NA
Arsenic	0.023		0.015		mg/L	1		6010C	Total/NA
Barium	0.58		0.0020		mg/L	1		6010C	Total/NA
Boron	0.030		0.020		mg/L	1		6010C	Total/NA
Calcium	91.8		0.50		mg/L	1		6010C	Total/NA
Chromium	0.022		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.026		0.0040		mg/L	1		6010C	Total/NA
Copper	0.028		0.010		mg/L	1		6010C	Total/NA
Iron	25.9		0.050		mg/L	1		6010C	Total/NA
Lead	0.011		0.010		mg/L	1		6010C	Total/NA
Magnesium	15.5		0.20		mg/L	1		6010C	Total/NA
Manganese	3.1		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.030		0.010		mg/L	1		6010C	Total/NA
Potassium	6.0		0.50		mg/L	1		6010C	Total/NA
Sodium	48.5		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.023		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.058		0.010		mg/L	1		6010C	Total/NA
Barium	0.24		0.0020		mg/L	1		6010C	Dissolved
Calcium	78.1		0.50		mg/L	1		6010C	Dissolved
Magnesium	10.3		0.20		mg/L	1		6010C	Dissolved
Manganese	1.5		0.0030		mg/L	1		6010C	Dissolved
Potassium	2.5		0.50		mg/L	1		6010C	Dissolved
Sodium	47.2		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	293		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	184		50.0		mg/L	5		310.2	Total/NA
Cyanide, Total	0.012		0.010		mg/L	1		335.4	Total/NA
Ammonia	0.23		0.020		mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-6A (Continued)
Lab Sample ID: 480-212610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Kjeldahl Nitrogen	1.8		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.069		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	33.4		10.0		mg/L	1		410.4	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	393		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	121		5.0		mg/L	5		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	3.8	*-	2.0		mg/L	1		SM 5210B	Total/NA
TOC Result 1	4.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.3		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.26		0.20		mg/L	1		6010C	Total/NA
Barium	0.41		0.0020		mg/L	1		6010C	Total/NA
Boron	0.020		0.020		mg/L	1		6010C	Total/NA
Calcium	56.6		0.50		mg/L	1		6010C	Total/NA
Iron	0.21		0.050		mg/L	1		6010C	Total/NA
Magnesium	13.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.094		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.4		0.50		mg/L	1		6010C	Total/NA
Sodium	38.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	196		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	153		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.053		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.20		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.12		0.050		mg/L	1		353.2	Total/NA
Sulfate	11.7		5.0		mg/L	1		9038	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	282		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	70.7		5.0		mg/L	5		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-5A
Lab Sample ID: 480-212610-1
Date Collected: 09/12/23 14:45
Matrix: Water
Date Received: 09/13/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 20:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/14/23 20:09	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 20:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/14/23 20:09	1
1,1-Dichloroethane	ND		1.0		ug/L			09/14/23 20:09	1
1,1-Dichloroethene	ND		1.0		ug/L			09/14/23 20:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/14/23 20:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/14/23 20:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/14/23 20:09	1
1,2-Dichloroethane	ND		1.0		ug/L			09/14/23 20:09	1
1,2-Dichloropropane	ND		1.0		ug/L			09/14/23 20:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/14/23 20:09	1
2-Butanone (MEK)	ND		10		ug/L			09/14/23 20:09	1
2-Hexanone	ND		5.0		ug/L			09/14/23 20:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/14/23 20:09	1
Acetone	ND	*+	10		ug/L			09/14/23 20:09	1
Acrylonitrile	ND		5.0		ug/L			09/14/23 20:09	1
Benzene	ND		1.0		ug/L			09/14/23 20:09	1
Chlorobromomethane	ND		1.0		ug/L			09/14/23 20:09	1
Bromodichloromethane	ND		1.0		ug/L			09/14/23 20:09	1
Bromoform	ND		1.0		ug/L			09/14/23 20:09	1
Bromomethane	ND		1.0		ug/L			09/14/23 20:09	1
Carbon disulfide	ND		1.0		ug/L			09/14/23 20:09	1
Carbon tetrachloride	ND		1.0		ug/L			09/14/23 20:09	1
Chlorobenzene	ND		1.0		ug/L			09/14/23 20:09	1
Dibromochloromethane	ND		1.0		ug/L			09/14/23 20:09	1
Chloroethane	ND		1.0		ug/L			09/14/23 20:09	1
Chloroform	ND		1.0		ug/L			09/14/23 20:09	1
Chloromethane	ND		1.0		ug/L			09/14/23 20:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 20:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 20:09	1
Dibromomethane	ND		1.0		ug/L			09/14/23 20:09	1
Ethylbenzene	ND		1.0		ug/L			09/14/23 20:09	1
1,2-Dibromoethane	ND		1.0		ug/L			09/14/23 20:09	1
Iodomethane	ND		1.0		ug/L			09/14/23 20:09	1
Methylene Chloride	ND		1.0		ug/L			09/14/23 20:09	1
Styrene	ND		1.0		ug/L			09/14/23 20:09	1
Tetrachloroethene	ND		1.0		ug/L			09/14/23 20:09	1
Trichlorofluoromethane	ND		1.0		ug/L			09/14/23 20:09	1
Trichloroethene	ND		1.0		ug/L			09/14/23 20:09	1
Toluene	ND		1.0		ug/L			09/14/23 20:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 20:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 20:09	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/14/23 20:09	1
Vinyl acetate	ND		5.0		ug/L			09/14/23 20:09	1
Vinyl chloride	ND		1.0		ug/L			09/14/23 20:09	1
Xylenes, Total	ND		2.0		ug/L			09/14/23 20:09	1
m,p-Xylene	ND		2.0		ug/L			09/14/23 20:09	1
o-Xylene	ND		1.0		ug/L			09/14/23 20:09	1

Client Sample ID: MW-5A
Date Collected: 09/12/23 14:45
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*09/14/23 20:09*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/14/23 20:09*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*09/14/23 20:09*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.52**		0.20		mg/L		09/14/23 08:25	09/17/23 17:43	1
Antimony	ND		0.020		mg/L		09/14/23 08:25	09/20/23 19:43	1
Arsenic	ND		0.015		mg/L		09/14/23 08:25	09/20/23 19:43	1
Barium	**0.64**		0.0020		mg/L		09/14/23 08:25	09/17/23 17:43	1
Beryllium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 17:43	1
Boron	**0.020**		0.020		mg/L		09/14/23 08:25	09/17/23 17:43	1
Cadmium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 17:43	1
Calcium	**49.6**		0.50		mg/L		09/14/23 08:25	09/17/23 17:43	1
Chromium	ND		0.0040		mg/L		09/14/23 08:25	09/17/23 17:43	1
Cobalt	ND		0.0040		mg/L		09/14/23 08:25	09/17/23 17:43	1
Copper	ND		0.010		mg/L		09/14/23 08:25	09/17/23 17:43	1
Iron	**0.36**		0.050		mg/L		09/14/23 08:25	09/17/23 17:43	1
Lead	ND		0.010		mg/L		09/14/23 08:25	09/17/23 17:43	1
Magnesium	**13.2**		0.20		mg/L		09/14/23 08:25	09/17/23 17:43	1
Manganese	**0.12**		0.0030		mg/L		09/14/23 08:25	09/17/23 17:43	1
Nickel	ND		0.010		mg/L		09/14/23 08:25	09/17/23 17:43	1
Potassium	**1.4**		0.50		mg/L		09/14/23 08:25	09/20/23 19:43	1
Selenium	ND		0.025		mg/L		09/14/23 08:25	09/17/23 17:43	1
Silver	ND		0.0060		mg/L		09/14/23 08:25	09/17/23 17:43	1
Sodium	**9.5**		1.0		mg/L		09/14/23 08:25	09/20/23 19:43	1
Thallium	ND		0.020		mg/L		09/14/23 08:25	09/17/23 17:43	1
Vanadium	ND		0.0050		mg/L		09/14/23 08:25	09/17/23 17:43	1
Zinc	**0.014**		0.010		mg/L		09/14/23 08:25	09/20/23 19:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/14/23 11:08	09/14/23 14:35	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**178**		0.50		mg/L			09/20/23 22:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 04:59	1
Alkalinity, Total (EPA 310.2)	**151**		50.0		mg/L			09/25/23 17:44	5
Cyanide, Total (EPA 335.4)	**0.034**		0.010		mg/L			09/13/23 20:34	1
Ammonia (EPA 350.1)	ND		0.020		mg/L			09/15/23 07:08	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		09/20/23 17:00	09/21/23 06:27	1
Nitrate as N (EPA 353.2)	**0.078**		0.050		mg/L			09/13/23 22:37	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/18/23 02:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/14/23 21:40	1
Chromium, hexavalent (SW846 7196A)	**0.010**	**H F1**	0.010		mg/L			09/13/23 14:46	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-5A
Lab Sample ID: 480-212610-1
Date Collected: 09/12/23 14:45
Matrix: Water
Date Received: 09/13/23 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**17.7**		5.0		mg/L			09/19/23 15:51	1
Total Dissolved Solids (SM 2540C)	**183**		10.0		mg/L			09/15/23 12:14	1
Chloride (SM 4500 Cl- E)	**3.6**		1.0		mg/L			09/20/23 11:21	1
Biochemical Oxygen Demand (SM 5210B)	**3.3**	*-	2.0		mg/L			09/13/23 11:02	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/14/23 15:11	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/14/23 15:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**5.00**		5.00		Color Units			09/14/23 10:03	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-6A
Date Collected: 09/12/23 13:30
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 20:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/14/23 20:32	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 20:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/14/23 20:32	1
1,1-Dichloroethane	ND		1.0		ug/L			09/14/23 20:32	1
1,1-Dichloroethene	ND		1.0		ug/L			09/14/23 20:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/14/23 20:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/14/23 20:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/14/23 20:32	1
1,2-Dichloroethane	ND		1.0		ug/L			09/14/23 20:32	1
1,2-Dichloropropane	ND		1.0		ug/L			09/14/23 20:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/14/23 20:32	1
2-Butanone (MEK)	ND		10		ug/L			09/14/23 20:32	1
2-Hexanone	ND		5.0		ug/L			09/14/23 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/14/23 20:32	1
Acetone	ND	*+	10		ug/L			09/14/23 20:32	1
Acrylonitrile	ND		5.0		ug/L			09/14/23 20:32	1
Benzene	ND		1.0		ug/L			09/14/23 20:32	1
Chlorobromomethane	ND		1.0		ug/L			09/14/23 20:32	1
Bromodichloromethane	ND		1.0		ug/L			09/14/23 20:32	1
Bromoform	ND		1.0		ug/L			09/14/23 20:32	1
Bromomethane	ND		1.0		ug/L			09/14/23 20:32	1
Carbon disulfide	ND		1.0		ug/L			09/14/23 20:32	1
Carbon tetrachloride	ND		1.0		ug/L			09/14/23 20:32	1
Chlorobenzene	ND		1.0		ug/L			09/14/23 20:32	1
Dibromochloromethane	ND		1.0		ug/L			09/14/23 20:32	1
Chloroethane	ND		1.0		ug/L			09/14/23 20:32	1
Chloroform	ND		1.0		ug/L			09/14/23 20:32	1
Chloromethane	ND		1.0		ug/L			09/14/23 20:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 20:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 20:32	1
Dibromomethane	ND		1.0		ug/L			09/14/23 20:32	1
Ethylbenzene	ND		1.0		ug/L			09/14/23 20:32	1
1,2-Dibromoethane	ND		1.0		ug/L			09/14/23 20:32	1
Iodomethane	ND		1.0		ug/L			09/14/23 20:32	1
Methylene Chloride	ND		1.0		ug/L			09/14/23 20:32	1
Styrene	ND		1.0		ug/L			09/14/23 20:32	1
Tetrachloroethene	ND		1.0		ug/L			09/14/23 20:32	1
Trichlorofluoromethane	ND		1.0		ug/L			09/14/23 20:32	1
Trichloroethene	ND		1.0		ug/L			09/14/23 20:32	1
Toluene	ND		1.0		ug/L			09/14/23 20:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 20:32	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 20:32	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/14/23 20:32	1
Vinyl acetate	ND		5.0		ug/L			09/14/23 20:32	1
Vinyl chloride	ND		1.0		ug/L			09/14/23 20:32	1
Xylenes, Total	ND		2.0		ug/L			09/14/23 20:32	1
m,p-Xylene	ND		2.0		ug/L			09/14/23 20:32	1
o-Xylene	ND		1.0		ug/L			09/14/23 20:32	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212610-1

Client Sample ID: MW-6A

Date Collected: 09/12/23 13:30
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*09/14/23 20:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/14/23 20:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/14/23 20:32*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17.1**		0.20		mg/L		09/14/23 08:25	09/17/23 17:46	1
Antimony	ND		0.020		mg/L		09/14/23 08:25	09/20/23 19:47	1
Arsenic	**0.023**		0.015		mg/L		09/14/23 08:25	09/20/23 19:47	1
Barium	**0.58**		0.0020		mg/L		09/14/23 08:25	09/17/23 17:46	1
Beryllium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 17:46	1
Boron	**0.030**		0.020		mg/L		09/14/23 08:25	09/17/23 17:46	1
Cadmium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 17:46	1
Calcium	**91.8**		0.50		mg/L		09/14/23 08:25	09/17/23 17:46	1
Chromium	**0.022**		0.0040		mg/L		09/14/23 08:25	09/17/23 17:46	1
Cobalt	**0.026**		0.0040		mg/L		09/14/23 08:25	09/17/23 17:46	1
Copper	**0.028**		0.010		mg/L		09/14/23 08:25	09/17/23 17:46	1
Iron	**25.9**		0.050		mg/L		09/14/23 08:25	09/17/23 17:46	1
Lead	**0.011**		0.010		mg/L		09/14/23 08:25	09/17/23 17:46	1
Magnesium	**15.5**		0.20		mg/L		09/14/23 08:25	09/17/23 17:46	1
Manganese	**3.1**		0.0030		mg/L		09/14/23 08:25	09/17/23 17:46	1
Nickel	**0.030**		0.010		mg/L		09/14/23 08:25	09/17/23 17:46	1
Potassium	**6.0**		0.50		mg/L		09/14/23 08:25	09/20/23 19:47	1
Selenium	ND		0.025		mg/L		09/14/23 08:25	09/17/23 17:46	1
Silver	ND		0.0060		mg/L		09/14/23 08:25	09/17/23 17:46	1
Sodium	**48.5**		1.0		mg/L		09/14/23 08:25	09/20/23 19:47	1
Thallium	ND		0.020		mg/L		09/14/23 08:25	09/17/23 17:46	1
Vanadium	**0.023**		0.0050		mg/L		09/14/23 08:25	09/17/23 17:46	1
Zinc	**0.058**		0.010		mg/L		09/14/23 08:25	09/20/23 19:47	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/18/23 08:41	09/20/23 00:44	1
Antimony	ND		0.020		mg/L		09/18/23 08:41	09/20/23 00:44	1
Arsenic	ND		0.015		mg/L		09/18/23 08:41	09/20/23 00:44	1
Barium	**0.24**		0.0020		mg/L		09/18/23 08:41	09/20/23 00:44	1
Beryllium	ND		0.0020		mg/L		09/18/23 08:41	09/20/23 00:44	1
Boron	ND		0.020		mg/L		09/18/23 08:41	09/20/23 00:44	1
Cadmium	ND		0.0020		mg/L		09/18/23 08:41	09/20/23 00:44	1
Calcium	**78.1**		0.50		mg/L		09/18/23 08:41	09/20/23 00:44	1
Chromium	ND		0.0040		mg/L		09/18/23 08:41	09/20/23 00:44	1
Cobalt	ND		0.0040		mg/L		09/18/23 08:41	09/20/23 00:44	1
Copper	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:44	1
Iron	ND		0.050		mg/L		09/18/23 08:41	09/20/23 00:44	1
Lead	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:44	1
Magnesium	**10.3**		0.20		mg/L		09/18/23 08:41	09/20/23 00:44	1
Manganese	**1.5**		0.0030		mg/L		09/18/23 08:41	09/20/23 00:44	1
Nickel	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:44	1
Potassium	**2.5**		0.50		mg/L		09/18/23 08:41	09/20/23 00:44	1
Selenium	ND		0.025		mg/L		09/18/23 08:41	09/20/23 00:44	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-6A
Date Collected: 09/12/23 13:30
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-2
Matrix: Water

Method: SW846 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		09/18/23 08:41	09/21/23 22:43	1
Sodium	**47.2**		1.0		mg/L		09/18/23 08:41	09/20/23 00:44	1
Thallium	ND		0.020		mg/L		09/18/23 08:41	09/20/23 00:44	1
Zinc	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:44	1
Vanadium	ND		0.0050		mg/L		09/18/23 08:41	09/20/23 00:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/14/23 11:08	09/14/23 14:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**293**		0.50		mg/L			09/20/23 22:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 05:18	1
Alkalinity, Total (EPA 310.2)	**184**		50.0		mg/L			09/25/23 17:45	5
Cyanide, Total (EPA 335.4)	**0.012**		0.010		mg/L			09/13/23 21:00	1
Ammonia (EPA 350.1)	**0.23**		0.020		mg/L			09/15/23 07:11	1
Total Kjeldahl Nitrogen (EPA 351.2	**1.8**		0.20		mg/L		09/14/23 16:00	09/15/23 06:50	1
Nitrate as N (EPA 353.2)	**0.069**		0.050		mg/L			09/13/23 22:06	1
Chemical Oxygen Demand (EPA 410.4)	**33.4**		10.0		mg/L			09/18/23 02:50	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/14/23 21:44	1
Chromium, hexavalent (SW846 7196A)	ND	H	0.010		mg/L			09/13/23 14:46	1
Sulfate (SW846 9038)	ND		5.0		mg/L			09/19/23 16:02	1
Total Dissolved Solids (SM 2540C)	**393**		10.0		mg/L			09/15/23 12:14	1
Chloride (SM 4500 Cl- E)	**121**		5.0		mg/L			09/20/23 11:37	5
Biochemical Oxygen Demand (SM 5210B)	**3.8**	*-	2.0		mg/L			09/13/23 11:02	1
TOC Result 1 (SM 5310C)	**4.0**		1.0		mg/L			09/14/23 16:10	1
TOC Result 2 (SM 5310C)	**4.3**		1.0		mg/L			09/14/23 16:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**10.0**		5.00		Color Units			09/14/23 10:03	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3
Date Collected: 09/12/23 14:10
Matrix: Water
Date Received: 09/13/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 20:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/14/23 20:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 20:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/14/23 20:55	1
1,1-Dichloroethane	ND		1.0		ug/L			09/14/23 20:55	1
1,1-Dichloroethene	ND		1.0		ug/L			09/14/23 20:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/14/23 20:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/14/23 20:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/14/23 20:55	1
1,2-Dichloroethane	ND		1.0		ug/L			09/14/23 20:55	1
1,2-Dichloropropane	ND		1.0		ug/L			09/14/23 20:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/14/23 20:55	1
2-Butanone (MEK)	ND		10		ug/L			09/14/23 20:55	1
2-Hexanone	ND		5.0		ug/L			09/14/23 20:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/14/23 20:55	1
Acetone	ND	*+	10		ug/L			09/14/23 20:55	1
Acrylonitrile	ND		5.0		ug/L			09/14/23 20:55	1
Benzene	ND		1.0		ug/L			09/14/23 20:55	1
Chlorobromomethane	ND		1.0		ug/L			09/14/23 20:55	1
Bromodichloromethane	ND		1.0		ug/L			09/14/23 20:55	1
Bromoform	ND		1.0		ug/L			09/14/23 20:55	1
Bromomethane	ND		1.0		ug/L			09/14/23 20:55	1
Carbon disulfide	ND		1.0		ug/L			09/14/23 20:55	1
Carbon tetrachloride	ND		1.0		ug/L			09/14/23 20:55	1
Chlorobenzene	ND		1.0		ug/L			09/14/23 20:55	1
Dibromochloromethane	ND		1.0		ug/L			09/14/23 20:55	1
Chloroethane	ND		1.0		ug/L			09/14/23 20:55	1
Chloroform	ND		1.0		ug/L			09/14/23 20:55	1
Chloromethane	ND		1.0		ug/L			09/14/23 20:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 20:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 20:55	1
Dibromomethane	ND		1.0		ug/L			09/14/23 20:55	1
Ethylbenzene	ND		1.0		ug/L			09/14/23 20:55	1
1,2-Dibromoethane	ND		1.0		ug/L			09/14/23 20:55	1
Iodomethane	ND		1.0		ug/L			09/14/23 20:55	1
Methylene Chloride	ND		1.0		ug/L			09/14/23 20:55	1
Styrene	ND		1.0		ug/L			09/14/23 20:55	1
Tetrachloroethene	ND		1.0		ug/L			09/14/23 20:55	1
Trichlorofluoromethane	ND		1.0		ug/L			09/14/23 20:55	1
Trichloroethene	ND		1.0		ug/L			09/14/23 20:55	1
Toluene	ND		1.0		ug/L			09/14/23 20:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 20:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 20:55	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/14/23 20:55	1
Vinyl acetate	ND		5.0		ug/L			09/14/23 20:55	1
Vinyl chloride	ND		1.0		ug/L			09/14/23 20:55	1
Xylenes, Total	ND		2.0		ug/L			09/14/23 20:55	1
m,p-Xylene	ND		2.0		ug/L			09/14/23 20:55	1
o-Xylene	ND		1.0		ug/L			09/14/23 20:55	1

Client Sample ID: MW-6B
Date Collected: 09/12/23 14:10
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*09/14/23 20:55*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/14/23 20:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/14/23 20:55*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.26**		0.20		mg/L		09/14/23 08:25	09/17/23 17:50	1
Antimony	ND		0.020		mg/L		09/14/23 08:25	09/20/23 20:02	1
Arsenic	ND		0.015		mg/L		09/14/23 08:25	09/20/23 20:02	1
Barium	**0.41**		0.0020		mg/L		09/14/23 08:25	09/17/23 17:50	1
Beryllium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 17:50	1
Boron	**0.020**		0.020		mg/L		09/14/23 08:25	09/17/23 17:50	1
Cadmium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 17:50	1
Calcium	**56.6**		0.50		mg/L		09/14/23 08:25	09/17/23 17:50	1
Chromium	ND		0.0040		mg/L		09/14/23 08:25	09/17/23 17:50	1
Cobalt	ND		0.0040		mg/L		09/14/23 08:25	09/17/23 17:50	1
Copper	ND		0.010		mg/L		09/14/23 08:25	09/17/23 17:50	1
Iron	**0.21**		0.050		mg/L		09/14/23 08:25	09/17/23 17:50	1
Lead	ND		0.010		mg/L		09/14/23 08:25	09/17/23 17:50	1
Magnesium	**13.3**		0.20		mg/L		09/14/23 08:25	09/17/23 17:50	1
Manganese	**0.094**		0.0030		mg/L		09/14/23 08:25	09/17/23 17:50	1
Nickel	ND		0.010		mg/L		09/14/23 08:25	09/17/23 17:50	1
Potassium	**1.4**		0.50		mg/L		09/14/23 08:25	09/20/23 20:02	1
Selenium	ND		0.025		mg/L		09/14/23 08:25	09/17/23 17:50	1
Silver	ND		0.0060		mg/L		09/14/23 08:25	09/17/23 17:50	1
Sodium	**38.4**		1.0		mg/L		09/14/23 08:25	09/20/23 20:02	1
Thallium	ND		0.020		mg/L		09/14/23 08:25	09/17/23 17:50	1
Vanadium	ND		0.0050		mg/L		09/14/23 08:25	09/17/23 17:50	1
Zinc	ND		0.010		mg/L		09/14/23 08:25	09/20/23 20:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/14/23 11:08	09/14/23 14:38	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**196**		0.50		mg/L			09/20/23 22:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 05:38	1
Alkalinity, Total (EPA 310.2)	**153**		50.0		mg/L			09/25/23 17:45	5
Cyanide, Total (EPA 335.4)	ND	F1	0.010		mg/L			09/13/23 20:53	1
Ammonia (EPA 350.1)	**0.053**		0.020		mg/L			09/15/23 07:13	1
Total Kjeldahl Nitrogen (EPA 351.2	**0.20**		0.20		mg/L		09/14/23 16:00	09/15/23 06:50	1
Nitrate as N (EPA 353.2)	**0.12**		0.050		mg/L			09/13/23 22:07	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/18/23 02:53	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/14/23 22:31	1
Chromium, hexavalent (SW846 7196A)	ND	H	0.010		mg/L			09/13/23 14:46	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3
Date Collected: 09/12/23 14:10
Matrix: Water
Date Received: 09/13/23 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**11.7**		5.0		mg/L			09/19/23 16:04	1
Total Dissolved Solids (SM 2540C)	**282**		10.0		mg/L			09/15/23 12:14	1
Chloride (SM 4500 Cl- E)	**70.7**		5.0		mg/L			09/20/23 11:38	5
Biochemical Oxygen Demand (SM 5210B)	ND	*-	2.0		mg/L			09/13/23 11:02	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/14/23 17:08	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/14/23 17:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**10.0**		5.00		Color Units			09/14/23 10:03	1

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212610-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-212610-1	MW-5A	107	107	93
480-212610-2	MW-6A	107	105	97
480-212610-3	MW-6B	112	104	94
LCS 480-683500/6	Lab Control Sample	114	106	96
MB 480-683500/8	Method Blank	105	104	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-683500/8
Matrix: Water
Analysis Batch: 683500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 16:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/14/23 16:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/14/23 16:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/14/23 16:04	1
1,1-Dichloroethane	ND		1.0		ug/L			09/14/23 16:04	1
1,1-Dichloroethene	ND		1.0		ug/L			09/14/23 16:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/14/23 16:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/14/23 16:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/14/23 16:04	1
1,2-Dichloroethane	ND		1.0		ug/L			09/14/23 16:04	1
1,2-Dichloropropane	ND		1.0		ug/L			09/14/23 16:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/14/23 16:04	1
2-Butanone (MEK)	ND		10		ug/L			09/14/23 16:04	1
2-Hexanone	ND		5.0		ug/L			09/14/23 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/14/23 16:04	1
Acetone	ND		10		ug/L			09/14/23 16:04	1
Acrylonitrile	ND		5.0		ug/L			09/14/23 16:04	1
Benzene	ND		1.0		ug/L			09/14/23 16:04	1
Chlorobromomethane	ND		1.0		ug/L			09/14/23 16:04	1
Bromodichloromethane	ND		1.0		ug/L			09/14/23 16:04	1
Bromoform	ND		1.0		ug/L			09/14/23 16:04	1
Bromomethane	ND		1.0		ug/L			09/14/23 16:04	1
Carbon disulfide	ND		1.0		ug/L			09/14/23 16:04	1
Carbon tetrachloride	ND		1.0		ug/L			09/14/23 16:04	1
Chlorobenzene	ND		1.0		ug/L			09/14/23 16:04	1
Dibromochloromethane	ND		1.0		ug/L			09/14/23 16:04	1
Chloroethane	ND		1.0		ug/L			09/14/23 16:04	1
Chloroform	ND		1.0		ug/L			09/14/23 16:04	1
Chloromethane	ND		1.0		ug/L			09/14/23 16:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 16:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 16:04	1
Dibromomethane	ND		1.0		ug/L			09/14/23 16:04	1
Ethylbenzene	ND		1.0		ug/L			09/14/23 16:04	1
1,2-Dibromoethane	ND		1.0		ug/L			09/14/23 16:04	1
Iodomethane	ND		1.0		ug/L			09/14/23 16:04	1
Methylene Chloride	ND		1.0		ug/L			09/14/23 16:04	1
Styrene	ND		1.0		ug/L			09/14/23 16:04	1
Tetrachloroethene	ND		1.0		ug/L			09/14/23 16:04	1
Trichlorofluoromethane	ND		1.0		ug/L			09/14/23 16:04	1
Trichloroethene	ND		1.0		ug/L			09/14/23 16:04	1
Toluene	ND		1.0		ug/L			09/14/23 16:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/14/23 16:04	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/14/23 16:04	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/14/23 16:04	1
Vinyl acetate	ND		5.0		ug/L			09/14/23 16:04	1
Vinyl chloride	ND		1.0		ug/L			09/14/23 16:04	1
Xylenes, Total	ND		2.0		ug/L			09/14/23 16:04	1
m,p-Xylene	ND		2.0		ug/L			09/14/23 16:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-683500/8
Matrix: Water
Analysis Batch: 683500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			09/14/23 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*09/14/23 16:04*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/14/23 16:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*09/14/23 16:04*	*1*

Lab Sample ID: LCS 480-683500/6
Matrix: Water
Analysis Batch: 683500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	80 - 120
1,1,1-Trichloroethane	25.0	29.0		ug/L		116	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.2		ug/L		109	76 - 120
1,1,2-Trichloroethane	25.0	26.1		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	27.7		ug/L		111	77 - 120
1,1-Dichloroethene	25.0	28.2		ug/L		113	66 - 127
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	30.2		ug/L		121	56 - 134
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	26.9		ug/L		108	75 - 120
1,2-Dichloropropane	25.0	26.8		ug/L		107	76 - 120
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 120
2-Butanone (MEK)	125	158		ug/L		126	57 - 140
2-Hexanone	125	145		ug/L		116	65 - 127
4-Methyl-2-pentanone (MIBK)	125	133		ug/L		106	71 - 125
Acetone	125	199	*+	ug/L		159	56 - 142
Acrylonitrile	250	275		ug/L		110	63 - 125
Benzene	25.0	26.9		ug/L		108	71 - 124
Chlorobromomethane	25.0	26.8		ug/L		107	72 - 130
Bromodichloromethane	25.0	29.2		ug/L		117	80 - 122
Bromoform	25.0	27.3		ug/L		109	61 - 132
Bromomethane	25.0	26.2		ug/L		105	55 - 144
Carbon disulfide	25.0	29.2		ug/L		117	59 - 134
Carbon tetrachloride	25.0	29.5		ug/L		118	72 - 134
Chlorobenzene	25.0	25.7		ug/L		103	80 - 120
Dibromochloromethane	25.0	27.9		ug/L		112	75 - 125
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	27.4		ug/L		110	73 - 127
Chloromethane	25.0	27.4		ug/L		110	68 - 124
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	74 - 124
Dibromomethane	25.0	26.7		ug/L		107	76 - 127
Ethylbenzene	25.0	26.3		ug/L		105	77 - 123
1,2-Dibromoethane	25.0	26.1		ug/L		105	77 - 120
Iodomethane	25.0	27.2		ug/L		109	78 - 123
Methylene Chloride	25.0	26.6		ug/L		106	75 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-683500/6
Matrix: Water
Analysis Batch: 683500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	25.0	25.2		ug/L		101	80 - 120
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122
Trichlorofluoromethane	25.0	28.7		ug/L		115	62 - 150
Trichloroethene	25.0	27.3		ug/L		109	74 - 123
Toluene	25.0	25.8		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	80 - 120
trans-1,4-Dichloro-2-butene	25.0	26.6		ug/L		106	41 - 131
Vinyl acetate	50.0	54.3		ug/L		109	50 - 144
Vinyl chloride	25.0	29.0		ug/L		116	65 - 133
m,p-Xylene	25.0	26.0		ug/L		104	76 - 122
o-Xylene	25.0	25.3		ug/L		101	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-683379/1-A
Matrix: Water
Analysis Batch: 683856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/14/23 08:25	09/17/23 16:22	1
Barium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 16:22	1
Beryllium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 16:22	1
Boron	ND		0.020		mg/L		09/14/23 08:25	09/17/23 16:22	1
Cadmium	ND		0.0020		mg/L		09/14/23 08:25	09/17/23 16:22	1
Calcium	ND		0.50		mg/L		09/14/23 08:25	09/17/23 16:22	1
Cobalt	ND		0.0040		mg/L		09/14/23 08:25	09/17/23 16:22	1
Copper	ND		0.010		mg/L		09/14/23 08:25	09/17/23 16:22	1
Iron	ND		0.050		mg/L		09/14/23 08:25	09/17/23 16:22	1
Magnesium	ND		0.20		mg/L		09/14/23 08:25	09/17/23 16:22	1
Manganese	ND		0.0030		mg/L		09/14/23 08:25	09/17/23 16:22	1
Nickel	ND		0.010		mg/L		09/14/23 08:25	09/17/23 16:22	1
Potassium	ND		0.50		mg/L		09/14/23 08:25	09/17/23 16:22	1
Selenium	ND		0.025		mg/L		09/14/23 08:25	09/17/23 16:22	1
Silver	ND		0.0060		mg/L		09/14/23 08:25	09/17/23 16:22	1
Sodium	ND		1.0		mg/L		09/14/23 08:25	09/17/23 16:22	1
Thallium	ND		0.020		mg/L		09/14/23 08:25	09/17/23 16:22	1
Vanadium	ND		0.0050		mg/L		09/14/23 08:25	09/17/23 16:22	1
Zinc	ND		0.010		mg/L		09/14/23 08:25	09/17/23 16:22	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-683379/1-A
Matrix: Water
Analysis Batch: 684404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020		mg/L		09/14/23 08:25	09/20/23 19:31	1
Arsenic	ND		0.015		mg/L		09/14/23 08:25	09/20/23 19:31	1
Copper	ND		0.010		mg/L		09/14/23 08:25	09/20/23 19:31	1
Lead	ND		0.010		mg/L		09/14/23 08:25	09/20/23 19:31	1

Lab Sample ID: LCS 480-683379/2-A
Matrix: Water
Analysis Batch: 683856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	11.12		mg/L		111	80 - 120
Barium	0.200	0.215		mg/L		108	80 - 120
Beryllium	0.200	0.224		mg/L		112	80 - 120
Boron	0.201	0.220		mg/L		110	80 - 120
Cadmium	0.200	0.233		mg/L		116	80 - 120
Calcium	10.0	11.25		mg/L		112	80 - 120
Cobalt	0.200	0.237		mg/L		118	80 - 120
Copper	0.201	0.208		mg/L		104	80 - 120
Iron	10.0	11.08		mg/L		111	80 - 120
Magnesium	10.0	10.93		mg/L		109	80 - 120
Manganese	0.200	0.224		mg/L		112	80 - 120
Nickel	0.200	0.231		mg/L		116	80 - 120
Potassium	10.0	11.26		mg/L		112	80 - 120
Selenium	0.200	0.226		mg/L		113	80 - 120
Silver	0.0500	0.0510		mg/L		102	80 - 120
Sodium	10.0	11.32		mg/L		113	80 - 120
Thallium	0.200	0.239		mg/L		120	80 - 120
Vanadium	0.200	0.216		mg/L		108	80 - 120
Zinc	0.200	0.221		mg/L		110	80 - 120

Lab Sample ID: LCS 480-683379/2-A
Matrix: Water
Analysis Batch: 684404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.238		mg/L		119	80 - 120
Arsenic	0.200	0.213		mg/L		106	80 - 120
Lead	0.200	0.227		mg/L		113	80 - 120

Lab Sample ID: MB 480-683527/1-C
Matrix: Water
Analysis Batch: 684205

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 683714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/18/23 08:41	09/20/23 00:38	1
Antimony	ND		0.020		mg/L		09/18/23 08:41	09/20/23 00:38	1
Arsenic	ND		0.015		mg/L		09/18/23 08:41	09/20/23 00:38	1
Barium	ND		0.0020		mg/L		09/18/23 08:41	09/20/23 00:38	1
Beryllium	ND		0.0020		mg/L		09/18/23 08:41	09/20/23 00:38	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-683527/1-C
Matrix: Water
Analysis Batch: 684205

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 683714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.020		mg/L		09/18/23 08:41	09/20/23 00:38	1
Cadmium	ND		0.0020		mg/L		09/18/23 08:41	09/20/23 00:38	1
Calcium	ND		0.50		mg/L		09/18/23 08:41	09/20/23 00:38	1
Chromium	ND		0.0040		mg/L		09/18/23 08:41	09/20/23 00:38	1
Cobalt	ND		0.0040		mg/L		09/18/23 08:41	09/20/23 00:38	1
Copper	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:38	1
Iron	ND		0.050		mg/L		09/18/23 08:41	09/20/23 00:38	1
Lead	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:38	1
Magnesium	ND		0.20		mg/L		09/18/23 08:41	09/20/23 00:38	1
Manganese	ND		0.0030		mg/L		09/18/23 08:41	09/20/23 00:38	1
Nickel	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:38	1
Potassium	ND		0.50		mg/L		09/18/23 08:41	09/20/23 00:38	1
Selenium	ND		0.025		mg/L		09/18/23 08:41	09/20/23 00:38	1
Sodium	ND		1.0		mg/L		09/18/23 08:41	09/20/23 00:38	1
Thallium	ND		0.020		mg/L		09/18/23 08:41	09/20/23 00:38	1
Vanadium	ND		0.0050		mg/L		09/18/23 08:41	09/20/23 00:38	1
Zinc	ND		0.010		mg/L		09/18/23 08:41	09/20/23 00:38	1

Lab Sample ID: MB 480-683527/1-C
Matrix: Water
Analysis Batch: 684584

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 683714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		09/18/23 08:41	09/21/23 22:36	1

Lab Sample ID: LCS 480-683527/2-C
Matrix: Water
Analysis Batch: 684205

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.52		mg/L		95	80 - 120
Antimony	0.200	0.216		mg/L		108	80 - 120
Arsenic	0.200	0.190		mg/L		95	80 - 120
Barium	0.200	0.195		mg/L		98	80 - 120
Beryllium	0.200	0.190		mg/L		95	80 - 120
Boron	0.201	0.187		mg/L		93	80 - 120
Cadmium	0.200	0.191		mg/L		96	80 - 120
Calcium	10.0	9.42		mg/L		94	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.200	0.194		mg/L		97	80 - 120
Copper	0.201	0.189		mg/L		94	80 - 120
Iron	10.0	9.29		mg/L		93	80 - 120
Lead	0.200	0.193		mg/L		96	80 - 120
Magnesium	10.0	9.45		mg/L		94	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Nickel	0.200	0.188		mg/L		94	80 - 120
Potassium	10.0	9.65		mg/L		96	80 - 120
Selenium	0.200	0.178		mg/L		89	80 - 120
Sodium	10.0	9.55		mg/L		95	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-683527/2-C
Matrix: Water
Analysis Batch: 684205

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.200	0.191		mg/L		96	80 - 120
Vanadium	0.200	0.193		mg/L		97	80 - 120
Zinc	0.200	0.193		mg/L		97	80 - 120

Lab Sample ID: LCS 480-683527/2-C
Matrix: Water
Analysis Batch: 684584

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0500	0.0473		mg/L		95	80 - 120

Lab Sample ID: 480-212610-2 MS
Matrix: Water
Analysis Batch: 684205

Client Sample ID: MW-6A
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	9.95		mg/L		99	75 - 125
Antimony	ND		0.200	0.228		mg/L		114	75 - 125
Arsenic	ND		0.200	0.209		mg/L		104	75 - 125
Barium	0.24		0.200	0.440		mg/L		99	75 - 125
Beryllium	ND		0.200	0.201		mg/L		101	75 - 125
Boron	ND		0.201	0.210		mg/L		96	75 - 125
Cadmium	ND		0.200	0.203		mg/L		102	75 - 125
Calcium	78.1		10.0	86.60	4	mg/L		85	75 - 125
Chromium	ND		0.200	0.199		mg/L		99	75 - 125
Cobalt	ND		0.200	0.199		mg/L		98	75 - 125
Copper	ND		0.201	0.187		mg/L		92	75 - 125
Iron	ND		10.0	9.86		mg/L		98	75 - 125
Lead	ND		0.200	0.195		mg/L		97	75 - 125
Magnesium	10.3		10.0	19.53		mg/L		92	75 - 125
Manganese	1.5		0.200	1.63	4	mg/L		82	75 - 125
Nickel	ND		0.200	0.192		mg/L		96	75 - 125
Potassium	2.5		10.0	12.34		mg/L		99	75 - 125
Selenium	ND		0.200	0.195		mg/L		97	75 - 125
Sodium	47.2		10.0	55.71	4	mg/L		85	75 - 125
Sodium			10.0	57.02		mg/L			
Thallium	ND		0.200	0.193		mg/L		97	75 - 125
Vanadium	ND		0.200	0.192		mg/L		96	75 - 125
Zinc	ND		0.200	0.200		mg/L		99	75 - 125

Lab Sample ID: 480-212610-2 MS
Matrix: Water
Analysis Batch: 684584

Client Sample ID: MW-6A
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.0500	0.0444		mg/L		89	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-212610-2 MSD
Matrix: Water
Analysis Batch: 684205

Client Sample ID: MW-6A
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.89		mg/L		99	75 - 125	1	20
Antimony	ND		0.200	0.222		mg/L		111	75 - 125	2	20
Arsenic	ND		0.200	0.200		mg/L		100	75 - 125	4	20
Barium	0.24		0.200	0.440		mg/L		99	75 - 125	0	20
Beryllium	ND		0.200	0.200		mg/L		100	75 - 125	0	20
Boron	ND		0.201	0.209		mg/L		95	75 - 125	1	20
Cadmium	ND		0.200	0.198		mg/L		99	75 - 125	2	20
Calcium	78.1		10.0	86.60	4	mg/L		85	75 - 125	0	20
Chromium	ND		0.200	0.199		mg/L		100	75 - 125	0	20
Cobalt	ND		0.200	0.198		mg/L		98	75 - 125	0	20
Copper	ND		0.201	0.187		mg/L		92	75 - 125	0	20
Iron	ND		10.0	9.64		mg/L		96	75 - 125	2	20
Lead	ND		0.200	0.194		mg/L		97	75 - 125	1	20
Magnesium	10.3		10.0	19.64		mg/L		93	75 - 125	1	20
Manganese	1.5		0.200	1.64	4	mg/L		84	75 - 125	0	20
Nickel	ND		0.200	0.191		mg/L		96	75 - 125	0	20
Potassium	2.5		10.0	12.24		mg/L		98	75 - 125	1	20
Selenium	ND		0.200	0.183		mg/L		92	75 - 125	6	20
Sodium	47.2		10.0	55.85	4	mg/L		87	75 - 125	0	20
Sodium			10.0	57.06		mg/L					
Thallium	ND		0.200	0.196		mg/L		98	75 - 125	1	20
Vanadium	ND		0.200	0.191		mg/L		95	75 - 125	1	20
Zinc	ND		0.200	0.196		mg/L		96	75 - 125	2	20

Lab Sample ID: 480-212610-2 MSD
Matrix: Water
Analysis Batch: 684584

Client Sample ID: MW-6A
Prep Type: Dissolved
Prep Batch: 683714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.0500	0.0444		mg/L		89	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-683456/1-A
Matrix: Water
Analysis Batch: 683543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/14/23 11:08	09/14/23 14:01	1

Lab Sample ID: LCS 480-683456/2-A
Matrix: Water
Analysis Batch: 683543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683456

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00669	0.00643		mg/L		96	80 - 120		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-683678/4
Matrix: Water
Analysis Batch: 683678

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/23 04:19	1

Lab Sample ID: LCS 480-683678/5
Matrix: Water
Analysis Batch: 683678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.01	4.94		mg/L		99	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-685011/11
Matrix: Water
Analysis Batch: 685011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/25/23 17:39	1

Lab Sample ID: LCS 480-685011/10
Matrix: Water
Analysis Batch: 685011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	46.07		mg/L		92	90 - 110

Lab Sample ID: 480-212610-1 MS
Matrix: Water
Analysis Batch: 685011

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	151		20.0	174.5	4	mg/L		118	60 - 140

Lab Sample ID: MB 480-685105/36
Matrix: Water
Analysis Batch: 685105

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/22/23 13:39	1

Lab Sample ID: MB 480-685105/44
Matrix: Water
Analysis Batch: 685105

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/22/23 13:44	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-685105/56
Matrix: Water
Analysis Batch: 685105

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/22/23 14:15	1

Lab Sample ID: LCS 480-685105/43
Matrix: Water
Analysis Batch: 685105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	47.21		mg/L		94	90 - 110

Lab Sample ID: LCS 480-685105/55
Matrix: Water
Analysis Batch: 685105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	48.34		mg/L		97	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-683417/159
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/13/23 18:18	1

Lab Sample ID: MB 480-683417/187
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/13/23 19:33	1

Lab Sample ID: MB 480-683417/214
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/13/23 20:46	1

Lab Sample ID: HLCS 480-683417/22
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.395		mg/L		99	90 - 110

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-683417/160
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.258		mg/L		103	90 - 110

Lab Sample ID: LCS 480-683417/188
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.263		mg/L		105	90 - 110

Lab Sample ID: LCS 480-683417/215
Matrix: Water
Analysis Batch: 683417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.272		mg/L		109	90 - 110

Lab Sample ID: 480-212610-3 MS
Matrix: Water
Analysis Batch: 683417

Client Sample ID: MW-6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	0.100	0.0893	F1	mg/L		80	90 - 110

Lab Sample ID: 480-212610-3 DU
Matrix: Water
Analysis Batch: 683417

Client Sample ID: MW-6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND	F1	ND		mg/L		NC	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-683640/27
Matrix: Water
Analysis Batch: 683640

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/15/23 06:58	1

Lab Sample ID: LCS 480-683640/28
Matrix: Water
Analysis Batch: 683640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.983		mg/L		98	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-212610-3 MS
Matrix: Water
Analysis Batch: 683640

Client Sample ID: MW-6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.053		0.200	0.251		mg/L		99	90 - 110

Lab Sample ID: 480-212610-3 DU
Matrix: Water
Analysis Batch: 683640

Client Sample ID: MW-6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.053		0.0474		mg/L		11	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-683575/1-A
Matrix: Water
Analysis Batch: 683646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/14/23 16:00	09/15/23 06:24	1

Lab Sample ID: LCS 480-683575/2-A
Matrix: Water
Analysis Batch: 683646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.71		mg/L		108	90 - 110

Lab Sample ID: 480-212610-3 MS
Matrix: Water
Analysis Batch: 683646

Client Sample ID: MW-6B
Prep Type: Total/NA
Prep Batch: 683575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	0.20		1.00	1.27		mg/L		107	90 - 110

Lab Sample ID: MB 480-684324/1-A
Matrix: Water
Analysis Batch: 684435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/20/23 17:00	09/21/23 05:48	1

Lab Sample ID: LCS 480-684324/2-A
Matrix: Water
Analysis Batch: 684435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.33		mg/L		93	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-684243/4
Matrix: Water
Analysis Batch: 684243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/17/23 20:41	1

Lab Sample ID: MB 480-684243/52
Matrix: Water
Analysis Batch: 684243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/18/23 02:07	1

Lab Sample ID: LCS 480-684243/5
Matrix: Water
Analysis Batch: 684243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	25.0	23.79		mg/L		95	90 - 110

Lab Sample ID: LCS 480-684243/53
Matrix: Water
Analysis Batch: 684243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	25.0	22.53		mg/L		90	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-683659/17
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/14/23 18:26	1

Lab Sample ID: MB 480-683659/47
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/14/23 20:17	1

Lab Sample ID: MB 480-683659/77
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/14/23 22:07	1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 480-683659/18
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0971		mg/L		97	90 - 110

Lab Sample ID: LCS 480-683659/48
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0986		mg/L		99	90 - 110

Lab Sample ID: LCS 480-683659/78
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0986		mg/L		99	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-683376/3
Matrix: Water
Analysis Batch: 683376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			09/13/23 14:46	1

Lab Sample ID: LCS 480-683376/4
Matrix: Water
Analysis Batch: 683376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.0500	0.0459		mg/L		92	85 - 115

Lab Sample ID: 480-212610-1 MS
Matrix: Water
Analysis Batch: 683376

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.010	H F1	0.0500	0.0484	F1	mg/L		76	85 - 115

Lab Sample ID: 480-212610-1 DU
Matrix: Water
Analysis Batch: 683376

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	0.010	H F1	ND		mg/L		NC	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-684115/140
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 15:42	1

Lab Sample ID: MB 480-684115/151
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 15:53	1

Lab Sample ID: MB 480-684115/161
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 16:00	1

Lab Sample ID: MB 480-684115/169
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 16:03	1

Lab Sample ID: LCS 480-684115/144
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.64		mg/L		109	90 - 110

Lab Sample ID: LCS 480-684115/160
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.14		mg/L		107	90 - 110

Lab Sample ID: LCS 480-684115/168
Matrix: Water
Analysis Batch: 684115
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.33		mg/L		108	90 - 110

Lab Sample ID: 480-212610-1 MS
Matrix: Water
Analysis Batch: 684115
Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	17.7		20.0	36.67		mg/L		95	60 - 128

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-212610-1 MSD
Matrix: Water
Analysis Batch: 684115

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	17.7		20.0	37.79		mg/L		100	60 - 128	3	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-683496/3
Matrix: Water
Analysis Batch: 683496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			09/14/23 10:03	1

Lab Sample ID: LCS 480-683496/4
Matrix: Water
Analysis Batch: 683496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Color			30.0	30.00		Color Units		100	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-683676/1
Matrix: Water
Analysis Batch: 683676

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			09/15/23 12:14	1

Lab Sample ID: LCS 480-683676/2
Matrix: Water
Analysis Batch: 683676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			552	584.0		mg/L		106	85 - 115		

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-684305/112
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:35	1

Lab Sample ID: MB 480-684305/38
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 10:58	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MB 480-684305/49
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:02	1

Lab Sample ID: MB 480-684305/63
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:09	1

Lab Sample ID: MB 480-684305/78
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:18	1

Lab Sample ID: MB 480-684305/96
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:27	1

Lab Sample ID: LCS 480-684305/111
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	26.82		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-684305/48
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	26.31		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-684305/77
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	26.74		mg/L		107	90 - 110		

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-683355/1
Matrix: Water
Analysis Batch: 683355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			09/13/23 11:02	1

Lab Sample ID: LCS 480-683355/2
Matrix: Water
Analysis Batch: 683355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	197	136.7	*-	mg/L		69	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-683823/28
Matrix: Water
Analysis Batch: 683823

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			09/15/23 01:48	1
TOC Result 2	ND		1.0		mg/L			09/15/23 01:48	1

Lab Sample ID: MB 480-683823/4
Matrix: Water
Analysis Batch: 683823

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			09/14/23 14:13	1
TOC Result 2	ND		1.0		mg/L			09/14/23 14:13	1

Lab Sample ID: LCS 480-683823/29
Matrix: Water
Analysis Batch: 683823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	60.0	60.53		mg/L		101	90 - 110
TOC Result 2	60.0	63.81		mg/L		106	90 - 110

Lab Sample ID: LCS 480-683823/5
Matrix: Water
Analysis Batch: 683823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	60.0	60.19		mg/L		100	90 - 110
TOC Result 2	60.0	63.51		mg/L		106	90 - 110

Lab Sample ID: 480-212610-1 MS
Matrix: Water
Analysis Batch: 683823

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	ND		23.3	23.48		mg/L		97	54 - 131
TOC Result 2	ND		23.3	25.21		mg/L		104	54 - 131

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Method: SM 5310C - TOC (Continued)

Lab Sample ID: 480-212610-2 DU
Matrix: Water
Analysis Batch: 683823

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
TOC Result 1	4.0			4.09		mg/L				2	20
TOC Result 2	4.3			4.29		mg/L				0.7	20

GC/MS VOA

Analysis Batch: 683500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	8260C	
480-212610-2	MW-6A	Total/NA	Water	8260C	
480-212610-3	MW-6B	Total/NA	Water	8260C	
MB 480-683500/8	Method Blank	Total/NA	Water	8260C	
LCS 480-683500/6	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 683379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	3005A	
480-212610-2	MW-6A	Total/NA	Water	3005A	
480-212610-3	MW-6B	Total/NA	Water	3005A	
MB 480-683379/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-683379/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 683456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	7470A	
480-212610-2	MW-6A	Total/NA	Water	7470A	
480-212610-3	MW-6B	Total/NA	Water	7470A	
MB 480-683456/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-683456/2-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 683527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Dissolved	Water	FILTRATION	
MB 480-683527/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-683527/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
480-212610-2 MS	MW-6A	Dissolved	Water	FILTRATION	
480-212610-2 MSD	MW-6A	Dissolved	Water	FILTRATION	

Analysis Batch: 683543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	7470A	683456
480-212610-2	MW-6A	Total/NA	Water	7470A	683456
480-212610-3	MW-6B	Total/NA	Water	7470A	683456
MB 480-683456/1-A	Method Blank	Total/NA	Water	7470A	683456
LCS 480-683456/2-A	Lab Control Sample	Total/NA	Water	7470A	683456

Prep Batch: 683714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Dissolved	Water	3005A	683527
MB 480-683527/1-C	Method Blank	Dissolved	Water	3005A	683527
LCS 480-683527/2-C	Lab Control Sample	Dissolved	Water	3005A	683527
480-212610-2 MS	MW-6A	Dissolved	Water	3005A	683527
480-212610-2 MSD	MW-6A	Dissolved	Water	3005A	683527

Analysis Batch: 683856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	6010C	683379

Metals (Continued)

Analysis Batch: 683856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Total/NA	Water	6010C	683379
480-212610-3	MW-6B	Total/NA	Water	6010C	683379
MB 480-683379/1-A	Method Blank	Total/NA	Water	6010C	683379
LCS 480-683379/2-A	Lab Control Sample	Total/NA	Water	6010C	683379

Analysis Batch: 684205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Dissolved	Water	6010C	683714
MB 480-683527/1-C	Method Blank	Dissolved	Water	6010C	683714
LCS 480-683527/2-C	Lab Control Sample	Dissolved	Water	6010C	683714
480-212610-2 MS	MW-6A	Dissolved	Water	6010C	683714
480-212610-2 MSD	MW-6A	Dissolved	Water	6010C	683714

Analysis Batch: 684330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	SM 2340B	
480-212610-2	MW-6A	Total/NA	Water	SM 2340B	
480-212610-3	MW-6B	Total/NA	Water	SM 2340B	

Analysis Batch: 684404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	6010C	683379
480-212610-2	MW-6A	Total/NA	Water	6010C	683379
480-212610-3	MW-6B	Total/NA	Water	6010C	683379
MB 480-683379/1-A	Method Blank	Total/NA	Water	6010C	683379
LCS 480-683379/2-A	Lab Control Sample	Total/NA	Water	6010C	683379

Analysis Batch: 684584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Dissolved	Water	6010C	683714
MB 480-683527/1-C	Method Blank	Dissolved	Water	6010C	683714
LCS 480-683527/2-C	Lab Control Sample	Dissolved	Water	6010C	683714
480-212610-2 MS	MW-6A	Dissolved	Water	6010C	683714
480-212610-2 MSD	MW-6A	Dissolved	Water	6010C	683714

General Chemistry

Analysis Batch: 683355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	SM 5210B	
480-212610-2	MW-6A	Total/NA	Water	SM 5210B	
480-212610-3	MW-6B	Total/NA	Water	SM 5210B	
USB 480-683355/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-683355/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 683376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	7196A	
480-212610-2	MW-6A	Total/NA	Water	7196A	
480-212610-3	MW-6B	Total/NA	Water	7196A	
MB 480-683376/3	Method Blank	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 683376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-683376/4	Lab Control Sample	Total/NA	Water	7196A	
480-212610-1 MS	MW-5A	Total/NA	Water	7196A	
480-212610-1 DU	MW-5A	Total/NA	Water	7196A	

Analysis Batch: 683417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	335.4	
480-212610-2	MW-6A	Total/NA	Water	335.4	
480-212610-3	MW-6B	Total/NA	Water	335.4	
MB 480-683417/159	Method Blank	Total/NA	Water	335.4	
MB 480-683417/187	Method Blank	Total/NA	Water	335.4	
MB 480-683417/214	Method Blank	Total/NA	Water	335.4	
HLCS 480-683417/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-683417/160	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-683417/188	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-683417/215	Lab Control Sample	Total/NA	Water	335.4	
480-212610-3 MS	MW-6B	Total/NA	Water	335.4	
480-212610-3 DU	MW-6B	Total/NA	Water	335.4	

Analysis Batch: 683496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	SM 2120B	
480-212610-2	MW-6A	Total/NA	Water	SM 2120B	
480-212610-3	MW-6B	Total/NA	Water	SM 2120B	
MB 480-683496/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-683496/4	Lab Control Sample	Total/NA	Water	SM 2120B	

Analysis Batch: 683522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	353.2	
480-212610-2	MW-6A	Total/NA	Water	353.2	
480-212610-3	MW-6B	Total/NA	Water	353.2	

Prep Batch: 683575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Total/NA	Water	351.2	
480-212610-3	MW-6B	Total/NA	Water	351.2	
MB 480-683575/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-683575/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-212610-3 MS	MW-6B	Total/NA	Water	351.2	

Analysis Batch: 683640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	350.1	
480-212610-2	MW-6A	Total/NA	Water	350.1	
480-212610-3	MW-6B	Total/NA	Water	350.1	
MB 480-683640/27	Method Blank	Total/NA	Water	350.1	
LCS 480-683640/28	Lab Control Sample	Total/NA	Water	350.1	
480-212610-3 MS	MW-6B	Total/NA	Water	350.1	
480-212610-3 DU	MW-6B	Total/NA	Water	350.1	

General Chemistry

Analysis Batch: 683646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-2	MW-6A	Total/NA	Water	351.2	683575
480-212610-3	MW-6B	Total/NA	Water	351.2	683575
MB 480-683575/1-A	Method Blank	Total/NA	Water	351.2	683575
LCS 480-683575/2-A	Lab Control Sample	Total/NA	Water	351.2	683575
480-212610-3 MS	MW-6B	Total/NA	Water	351.2	683575

Analysis Batch: 683659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	420.4	
480-212610-2	MW-6A	Total/NA	Water	420.4	
480-212610-3	MW-6B	Total/NA	Water	420.4	
MB 480-683659/17	Method Blank	Total/NA	Water	420.4	
MB 480-683659/47	Method Blank	Total/NA	Water	420.4	
MB 480-683659/77	Method Blank	Total/NA	Water	420.4	
LCS 480-683659/18	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-683659/48	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-683659/78	Lab Control Sample	Total/NA	Water	420.4	

Analysis Batch: 683676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	SM 2540C	
480-212610-2	MW-6A	Total/NA	Water	SM 2540C	
480-212610-3	MW-6B	Total/NA	Water	SM 2540C	
MB 480-683676/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-683676/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 683678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	300.0	
480-212610-2	MW-6A	Total/NA	Water	300.0	
480-212610-3	MW-6B	Total/NA	Water	300.0	
MB 480-683678/4	Method Blank	Total/NA	Water	300.0	
LCS 480-683678/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 683823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	SM 5310C	
480-212610-2	MW-6A	Total/NA	Water	SM 5310C	
480-212610-3	MW-6B	Total/NA	Water	SM 5310C	
MB 480-683823/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-683823/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-683823/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-683823/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-212610-1 MS	MW-5A	Total/NA	Water	SM 5310C	
480-212610-2 DU	MW-6A	Total/NA	Water	SM 5310C	

Analysis Batch: 684115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	9038	
480-212610-2	MW-6A	Total/NA	Water	9038	
480-212610-3	MW-6B	Total/NA	Water	9038	

General Chemistry (Continued)

Analysis Batch: 684115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-684115/140	Method Blank	Total/NA	Water	9038	
MB 480-684115/151	Method Blank	Total/NA	Water	9038	
MB 480-684115/161	Method Blank	Total/NA	Water	9038	
MB 480-684115/169	Method Blank	Total/NA	Water	9038	
LCS 480-684115/144	Lab Control Sample	Total/NA	Water	9038	
LCS 480-684115/160	Lab Control Sample	Total/NA	Water	9038	
LCS 480-684115/168	Lab Control Sample	Total/NA	Water	9038	
480-212610-1 MS	MW-5A	Total/NA	Water	9038	
480-212610-1 MSD	MW-5A	Total/NA	Water	9038	

Analysis Batch: 684243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	410.4	
480-212610-2	MW-6A	Total/NA	Water	410.4	
480-212610-3	MW-6B	Total/NA	Water	410.4	
MB 480-684243/4	Method Blank	Total/NA	Water	410.4	
MB 480-684243/52	Method Blank	Total/NA	Water	410.4	
LCS 480-684243/5	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-684243/53	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 684305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	SM 4500 Cl- E	
480-212610-2	MW-6A	Total/NA	Water	SM 4500 Cl- E	
480-212610-3	MW-6B	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/112	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/38	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/49	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/63	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/78	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/96	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-684305/111	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-684305/48	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-684305/77	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Prep Batch: 684324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	351.2	
MB 480-684324/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-684324/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 684435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	351.2	684324
MB 480-684324/1-A	Method Blank	Total/NA	Water	351.2	684324
LCS 480-684324/2-A	Lab Control Sample	Total/NA	Water	351.2	684324

Analysis Batch: 685011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-1	MW-5A	Total/NA	Water	310.2	
480-212610-2	MW-6A	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 685011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212610-3	MW-6B	Total/NA	Water	310.2	
MB 480-685011/11	Method Blank	Total/NA	Water	310.2	
LCS 480-685011/10	Lab Control Sample	Total/NA	Water	310.2	
480-212610-1 MS	MW-5A	Total/NA	Water	310.2	

Analysis Batch: 685105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-685105/36	Method Blank	Total/NA	Water	310.2	
MB 480-685105/44	Method Blank	Total/NA	Water	310.2	
MB 480-685105/56	Method Blank	Total/NA	Water	310.2	
LCS 480-685105/43	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-685105/55	Lab Control Sample	Total/NA	Water	310.2	

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212610-1

Client Sample ID: MW-5A
Date Collected: 09/12/23 14:45
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683500	AXK	EET BUF	09/14/23 20:09
Total/NA	Prep	3005A			683379	NVK	EET BUF	09/14/23 08:25
Total/NA	Analysis	6010C		1	683856	LMH	EET BUF	09/17/23 17:43
Total/NA	Prep	3005A			683379	NVK	EET BUF	09/14/23 08:25
Total/NA	Analysis	6010C		1	684404	LMH	EET BUF	09/20/23 19:43
Total/NA	Prep	7470A			683456	NVK	EET BUF	09/14/23 11:08
Total/NA	Analysis	7470A		1	683543	NVK	EET BUF	09/14/23 14:35
Total/NA	Analysis	SM 2340B		1	684330	JJP	EET BUF	09/20/23 22:57
Total/NA	Analysis	300.0		1	683678	AF	EET BUF	09/16/23 04:59
Total/NA	Analysis	310.2		5	685011	IMZ	EET BUF	09/25/23 17:44
Total/NA	Analysis	335.4		1	683417	CLT	EET BUF	09/13/23 20:34
Total/NA	Analysis	350.1		1	683640	CLT	EET BUF	09/15/23 07:08
Total/NA	Prep	351.2			684324	GW	EET BUF	09/20/23 17:00
Total/NA	Analysis	351.2		1	684435	CLT	EET BUF	09/21/23 06:27
Total/NA	Analysis	353.2		1	683522	KB	EET BUF	09/13/23 22:37
Total/NA	Analysis	410.4		1	684243	DLG	EET BUF	09/18/23 02:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/14/23 21:40
Total/NA	Analysis	7196A		1	683376	KB	EET BUF	09/13/23 14:46
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 15:51
Total/NA	Analysis	SM 2120B		1	683496	AB	EET BUF	09/14/23 10:03
Total/NA	Analysis	SM 2540C		1	683676	SAK	EET BUF	09/15/23 12:14
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:21
Total/NA	Analysis	SM 5210B		1	683355	CG	EET BUF	09/13/23 11:02
Total/NA	Analysis	SM 5310C		1	683823	AF	EET BUF	09/14/23 15:11

Client Sample ID: MW-6A
Date Collected: 09/12/23 13:30
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683500	AXK	EET BUF	09/14/23 20:32
Dissolved	Filtration	FILTRATION			683527	NVK	EET BUF	09/14/23 14:20
Dissolved	Prep	3005A			683714	NVK	EET BUF	09/18/23 08:41
Dissolved	Analysis	6010C		1	684205	LMH	EET BUF	09/20/23 00:44
Dissolved	Filtration	FILTRATION			683527	NVK	EET BUF	09/14/23 14:20
Dissolved	Prep	3005A			683714	NVK	EET BUF	09/18/23 08:41
Dissolved	Analysis	6010C		1	684584	LMH	EET BUF	09/21/23 22:43
Total/NA	Prep	3005A			683379	NVK	EET BUF	09/14/23 08:25
Total/NA	Analysis	6010C		1	683856	LMH	EET BUF	09/17/23 17:46
Total/NA	Prep	3005A			683379	NVK	EET BUF	09/14/23 08:25
Total/NA	Analysis	6010C		1	684404	LMH	EET BUF	09/20/23 19:47
Total/NA	Prep	7470A			683456	NVK	EET BUF	09/14/23 11:08
Total/NA	Analysis	7470A		1	683543	NVK	EET BUF	09/14/23 14:36

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212610-1

Client Sample ID: MW-6A

Date Collected: 09/12/23 13:30
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2340B		1	684330	JJP	EET BUF	09/20/23 22:57
Total/NA	Analysis	300.0		1	683678	AF	EET BUF	09/16/23 05:18
Total/NA	Analysis	310.2		5	685011	IMZ	EET BUF	09/25/23 17:45
Total/NA	Analysis	335.4		1	683417	CLT	EET BUF	09/13/23 21:00
Total/NA	Analysis	350.1		1	683640	CLT	EET BUF	09/15/23 07:11
Total/NA	Prep	351.2			683575	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 06:50
Total/NA	Analysis	353.2		1	683522	KB	EET BUF	09/13/23 22:06
Total/NA	Analysis	410.4		1	684243	DLG	EET BUF	09/18/23 02:50
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/14/23 21:44
Total/NA	Analysis	7196A		1	683376	KB	EET BUF	09/13/23 14:46
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:02
Total/NA	Analysis	SM 2120B		1	683496	AB	EET BUF	09/14/23 10:03
Total/NA	Analysis	SM 2540C		1	683676	SAK	EET BUF	09/15/23 12:14
Total/NA	Analysis	SM 4500 Cl- E		5	684305	CG	EET BUF	09/20/23 11:37
Total/NA	Analysis	SM 5210B		1	683355	CG	EET BUF	09/13/23 11:02
Total/NA	Analysis	SM 5310C		1	683823	AF	EET BUF	09/14/23 16:10

Client Sample ID: MW-6B

Date Collected: 09/12/23 14:10
Date Received: 09/13/23 10:30

Lab Sample ID: 480-212610-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683500	AXK	EET BUF	09/14/23 20:55
Total/NA	Prep	3005A			683379	NVK	EET BUF	09/14/23 08:25
Total/NA	Analysis	6010C		1	683856	LMH	EET BUF	09/17/23 17:50
Total/NA	Prep	3005A			683379	NVK	EET BUF	09/14/23 08:25
Total/NA	Analysis	6010C		1	684404	LMH	EET BUF	09/20/23 20:02
Total/NA	Prep	7470A			683456	NVK	EET BUF	09/14/23 11:08
Total/NA	Analysis	7470A		1	683543	NVK	EET BUF	09/14/23 14:38
Total/NA	Analysis	SM 2340B		1	684330	JJP	EET BUF	09/20/23 22:57
Total/NA	Analysis	300.0		1	683678	AF	EET BUF	09/16/23 05:38
Total/NA	Analysis	310.2		5	685011	IMZ	EET BUF	09/25/23 17:45
Total/NA	Analysis	335.4		1	683417	CLT	EET BUF	09/13/23 20:53
Total/NA	Analysis	350.1		1	683640	CLT	EET BUF	09/15/23 07:13
Total/NA	Prep	351.2			683575	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 06:50
Total/NA	Analysis	353.2		1	683522	KB	EET BUF	09/13/23 22:07
Total/NA	Analysis	410.4		1	684243	DLG	EET BUF	09/18/23 02:53
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/14/23 22:31
Total/NA	Analysis	7196A		1	683376	KB	EET BUF	09/13/23 14:46
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:04

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3
Date Collected: 09/12/23 14:10
Matrix: Water
Date Received: 09/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2120B		1	683496	AB	EET BUF	09/14/23 10:03
Total/NA	Analysis	SM 2540C		1	683676	SAK	EET BUF	09/15/23 12:14
Total/NA	Analysis	SM 4500 Cl- E		5	684305	CG	EET BUF	09/20/23 11:38
Total/NA	Analysis	SM 5210B		1	683355	CG	EET BUF	09/13/23 11:02
Total/NA	Analysis	SM 5310C		1	683823	AF	EET BUF	09/14/23 17:08

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Method Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212610-1
Project/Site: Towslee Landfill - Baseline

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET BUF
300.0	Anions, Ion Chromatography	EPA	EET BUF
310.2	Alkalinity	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
351.2	Nitrogen, Total Kjeldahl	EPA	EET BUF
353.2	Nitrate	EPA	EET BUF
410.4	COD	EPA	EET BUF
420.4	Phenolics, Total Recoverable	EPA	EET BUF
7196A	Chromium, Hexavalent	SW846	EET BUF
9038	Sulfate, Turbidimetric	SW846	EET BUF
SM 2120B	Color, Colorimetric	SM	EET BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET BUF
SM 4500 Cl- E	Chloride, Total	SM	EET BUF
SM 5210B	BOD, 5-Day	SM	EET BUF
SM 5310C	TOC	SM	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
351.2	Nitrogen, Total Kjeldahl	EPA	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
FILTRATION	Sample Filtration	None	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-212610-1	MW-5A	Water	09/12/23 14:45	09/13/23 10:30
480-212610-2	MW-6A	Water	09/12/23 13:30	09/13/23 10:30
480-212610-3	MW-6B	Water	09/12/23 14:10	09/13/23 10:30

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Chad Hill	Lab PM: Beninati, John	Carrier Tracking No(s): Syracuse	COC No: 480-187667-13274.2
Client Contact: ~~Ms Kathleen McGrath~~ Chad Hill	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin: #225	Page: Page 1 of 1
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Standard			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-~~[illegible]~~ 5681 (Tel)	PO #: Purchase Order not required			
Email: ~~kathleen.mcgrath~~ chad.hill @cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	335.4 - Cyanide	350.1, 351.2, 410.4	5310C - TOC	420.4_NP - Phenolics	Dissolved Metals	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	D	A	N	N	N	N	N	B	S	S	S			
MW-6B	9/12/23	1410	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X			
~~MW-7A~~ MW-6A	↓	1330	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
~~DUP~~ MW-5A	↓	1445	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X			
~~Trip Blank 1~~				Water																	
~~Trip Blank 2~~				Water																	

RE 9-12-23

480-212610 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Chad Hill	Date/Time: 9/12/23 1505	Company: CCSWCD	Received by: [illegible signature]	Date/Time: 9/12/23 1505	Company: ES-Syr
Relinquished by: R. English	Date/Time: 9-12-23, 1900	Company: Syr	Received by: [illegible signature]	Date/Time: 9/13/23 1030	Company: TAS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-212610-1

Login Number: 212610
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hill
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, New York 13045

Generated 9/27/2023 2:45:27 PM

JOB DESCRIPTION

Towslee Landfill - Baseline
Towslee Landfill - Baseline

JOB NUMBER

480-212651-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

Table of Contents

Definitions/Glossary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-212651-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-212651-1

Receipt
The samples were received on 9/14/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.4°C, 2.6°C and 2.8°C

GC/MS VOA
Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone and 2-Chloro-1,3-butadiene with Vinyl acetate in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-683828. The following sample is impacted: DUP (480-212651-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2120B: The following sample was analyzed outside of analytical holding time due to lab error: DUP (480-212651-11).

Method 2120B: The following samples were filtered prior to analysis, therefore the analytical results are being report as "True Color": CD-1 (480-212651-1) and CD-1RA (480-212651-2)

Method 300.0_28D: The following samples were diluted due to the abundance of non-target analytes: MW-2A (480-212651-5), MW-2B (480-212651-6), MW-4A (480-212651-9) and MW-7A (480-212651-10). Elevated reporting limits (RLs) are provided.

Method 7196A: The following sample(s) was received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-212651-1).

Method 7196A: The following sample was received outside of holding time: DUP (480-212651-11).

Method 9038: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 480-684451 were outside control limits: MW-4A (480-212651-9). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: CD-1
Lab Sample ID: 480-212651-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11.7		0.20		mg/L	1		6010C	Total/NA
Barium	0.27		0.0020		mg/L	1		6010C	Total/NA
Calcium	49.1		0.50		mg/L	1		6010C	Total/NA
Chromium	0.018		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0072		0.0040		mg/L	1		6010C	Total/NA
Copper	0.019		0.010		mg/L	1		6010C	Total/NA
Iron	16.1		0.050		mg/L	1		6010C	Total/NA
Magnesium	13.3		0.20		mg/L	1		6010C	Total/NA
Manganese	3.0		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.016		0.010		mg/L	1		6010C	Total/NA
Potassium	3.9		0.50		mg/L	1		6010C	Total/NA
Sodium	4.3		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.018		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.043		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	178		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	138		20.0		mg/L	2		310.2	Total/NA
Cyanide, Total	0.010	F1	0.010		mg/L	1		335.4	Total/NA
Ammonia	0.021		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.36		0.20		mg/L	1		351.2	Total/NA
Sulfate	16.4		5.0		mg/L	1		9038	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	155		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.1		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: CD-1RA
Lab Sample ID: 480-212651-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.7		0.20		mg/L	1		6010C	Total/NA
Barium	0.17		0.0020		mg/L	1		6010C	Total/NA
Calcium	45.3		0.50		mg/L	1		6010C	Total/NA
Iron	2.2		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.26		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	5.2		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	157		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	149		20.0		mg/L	2		310.2	Total/NA
Cyanide, Total	0.010		0.010		mg/L	1		335.4	Total/NA
Ammonia	0.057		0.020		mg/L	1		350.1	Total/NA
Sulfate	15.4		5.0		mg/L	1		9038	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	164		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.4		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-1A
Lab Sample ID: 480-212651-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.0		0.20		mg/L	1		6010C	Total/NA
Barium	0.11		0.0020		mg/L	1		6010C	Total/NA
Boron	0.021		0.020		mg/L	1		6010C	Total/NA
Calcium	47.8		0.50		mg/L	1		6010C	Total/NA
Iron	1.4		0.050		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: MW-1A (Continued)
Lab Sample ID: 480-212651-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11.0		0.20		mg/L	1		6010C	Total/NA
Manganese	1.7		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.3		0.50		mg/L	1		6010C	Total/NA
Sodium	12.7		1.0		mg/L	1		6010C	Total/NA
Zinc	0.012		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	165		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	126		20.0		mg/L	2		310.2	Total/NA
Ammonia	0.065		0.020		mg/L	1		350.1	Total/NA
Sulfate	16.1		5.0		mg/L	1		9038	Total/NA
Color	5.00		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	219		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	35.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-1B
Lab Sample ID: 480-212651-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17		0.0020		mg/L	1		6010C	Total/NA
Calcium	25.3		0.50		mg/L	1		6010C	Total/NA
Magnesium	6.1		0.20		mg/L	1		6010C	Total/NA
Manganese	0.16		0.0030		mg/L	1		6010C	Total/NA
Sodium	6.7		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	88.0		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	96.2		10.0		mg/L	1		310.2	Total/NA
Ammonia	0.024		0.020		mg/L	1		350.1	Total/NA
Sulfate	8.1		5.0		mg/L	1		9038	Total/NA
Color	5.00		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	88.0		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	5.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-2A
Lab Sample ID: 480-212651-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.1		1.0		ug/L	1		8260C	Total/NA
Chlorobenzene	1.9		1.0		ug/L	1		8260C	Total/NA
Barium	0.32		0.0020		mg/L	1		6010C	Total/NA
Boron	0.19		0.020		mg/L	1		6010C	Total/NA
Calcium	62.3		0.50		mg/L	1		6010C	Total/NA
Iron	2.2		0.050		mg/L	1		6010C	Total/NA
Magnesium	12.5		0.20		mg/L	1		6010C	Total/NA
Manganese	8.4		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.2		0.50		mg/L	1		6010C	Total/NA
Sodium	11.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	207		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	268		50.0		mg/L	5		310.2	Total/NA
Ammonia	7.4		0.10		mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	6.0		0.40		mg/L	2		351.2	Total/NA
Nitrate as N	0.17		0.050		mg/L	1		353.2	Total/NA
Color	35.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	259		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	11.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	4.3		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.5		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-2B — Lab Sample ID: 480-212651-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	4.3		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	44		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	16		1.0		ug/L	1		8260C	Total/NA
Barium	1.1		0.0020		mg/L	1		6010C	Total/NA
Boron	0.19		0.020		mg/L	1		6010C	Total/NA
Calcium	172		0.50		mg/L	1		6010C	Total/NA
Iron	0.29		0.050		mg/L	1		6010C	Total/NA
Magnesium	36.8		0.20		mg/L	1		6010C	Total/NA
Manganese	4.9		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.2		0.50		mg/L	1		6010C	Total/NA
Sodium	41.3		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	582		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.62		0.40		mg/L	2		300.0	Total/NA
Alkalinity, Total	620		100		mg/L	10		310.2	Total/NA
Ammonia	0.66		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.1		0.20		mg/L	1		351.2	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	683		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	86.5		5.0		mg/L	5		SM 4500 Cl- E	Total/NA
TOC Result 1	3.7		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	3.6		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 480-212651-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.57		0.20		mg/L	1		6010C	Total/NA
Barium	0.39		0.0020		mg/L	1		6010C	Total/NA
Calcium	30.4		0.50		mg/L	1		6010C	Total/NA
Iron	0.64		0.050		mg/L	1		6010C	Total/NA
Magnesium	5.8		0.20		mg/L	1		6010C	Total/NA
Manganese	0.39		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	2.9		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	100		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	73.1		10.0		mg/L	1		310.2	Total/NA
Ammonia	0.060		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.66		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.090		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	30.4		10.0		mg/L	1		410.4	Total/NA
Color	50.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	105		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.6		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	4.6		2.0		mg/L	1		SM 5210B	Total/NA
TOC Result 1	7.7		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	8.4		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3B — Lab Sample ID: 480-212651-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.18		0.0020		mg/L	1		6010C	Total/NA
Boron	0.028		0.020		mg/L	1		6010C	Total/NA
Calcium	45.5		0.50		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3B (Continued)
Lab Sample ID: 480-212651-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.094		0.050		mg/L	1		6010C	Total/NA
Magnesium	13.5		0.20		mg/L	1		6010C	Total/NA
Manganese	0.052		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.0		0.50		mg/L	1		6010C	Total/NA
Sodium	8.2		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	169		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	151		20.0		mg/L	2		310.2	Total/NA
Cyanide, Total	0.014		0.010		mg/L	1		335.4	Total/NA
Ammonia	0.045		0.020		mg/L	1		350.1	Total/NA
Sulfate	9.1		5.0		mg/L	1		9038	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	185		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	21.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-4A
Lab Sample ID: 480-212651-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.46		0.20		mg/L	1		6010C	Total/NA
Barium	1.1		0.0020		mg/L	1		6010C	Total/NA
Boron	0.084		0.020		mg/L	1		6010C	Total/NA
Calcium	128		0.50		mg/L	1		6010C	Total/NA
Iron	0.25		0.050		mg/L	1		6010C	Total/NA
Magnesium	28.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.64		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.6		0.50		mg/L	1		6010C	Total/NA
Sodium	17.1		1.0		mg/L	1		6010C	Total/NA
Zinc	0.017		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	436		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	462		50.0		mg/L	5		310.2	Total/NA
Cyanide, Total	0.011		0.010		mg/L	1		335.4	Total/NA
Ammonia	0.026		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.29		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.079		0.050		mg/L	1		353.2	Total/NA
Color	15.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	464		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	9.9		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	1.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.6		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-7A
Lab Sample ID: 480-212651-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Aluminum	1.0		0.20		mg/L	1		6010C	Total/NA
Barium	0.30		0.0020		mg/L	1		6010C	Total/NA
Boron	0.27		0.020		mg/L	1		6010C	Total/NA
Calcium	105		0.50		mg/L	1		6010C	Total/NA
Iron	1.7		0.050		mg/L	1		6010C	Total/NA
Magnesium	21.8		0.20		mg/L	1		6010C	Total/NA
Manganese	2.0		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.5		0.50		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-7A (Continued)
Lab Sample ID: 480-212651-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	48.6		1.0		mg/L	1		6010C	Total/NA
Zinc	0.15		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	351		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	393		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.048		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.50		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.15		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	18.1		10.0		mg/L	1		410.4	Total/NA
Color	25.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	406		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	29.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	5.8		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	5.8		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: DUP
Lab Sample ID: 480-212651-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Aluminum	2.8		0.20		mg/L	1		6010C	Total/NA
Barium	0.32		0.0020		mg/L	1		6010C	Total/NA
Boron	0.26		0.020		mg/L	1		6010C	Total/NA
Calcium	104		0.50		mg/L	1		6010C	Total/NA
Iron	3.8		0.050		mg/L	1		6010C	Total/NA
Magnesium	20.9		0.20		mg/L	1		6010C	Total/NA
Manganese	1.5		0.0030		mg/L	1		6010C	Total/NA
Potassium	3.1		0.50		mg/L	1		6010C	Total/NA
Sodium	45.4		1.0		mg/L	1		6010C	Total/NA
Zinc	0.060		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	347		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	421		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.12		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.84		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.16		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	32.4		10.0		mg/L	1		410.4	Total/NA
Color	30.0	H	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	410		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	28.5		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	6.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	6.1		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: CD-1
Date Collected: 09/13/23 11:00
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 22:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/15/23 22:27	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 22:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/15/23 22:27	1
1,1-Dichloroethane	ND		1.0		ug/L			09/15/23 22:27	1
1,1-Dichloroethene	ND		1.0		ug/L			09/15/23 22:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/15/23 22:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/15/23 22:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/15/23 22:27	1
1,2-Dichloroethane	ND		1.0		ug/L			09/15/23 22:27	1
1,2-Dichloropropane	ND		1.0		ug/L			09/15/23 22:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/15/23 22:27	1
2-Butanone (MEK)	ND		10		ug/L			09/15/23 22:27	1
2-Hexanone	ND		5.0		ug/L			09/15/23 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/15/23 22:27	1
Acetone	ND		10		ug/L			09/15/23 22:27	1
Acrylonitrile	ND		5.0		ug/L			09/15/23 22:27	1
Benzene	ND		1.0		ug/L			09/15/23 22:27	1
Chlorobromomethane	ND		1.0		ug/L			09/15/23 22:27	1
Bromodichloromethane	ND		1.0		ug/L			09/15/23 22:27	1
Bromoform	ND		1.0		ug/L			09/15/23 22:27	1
Bromomethane	ND		1.0		ug/L			09/15/23 22:27	1
Carbon disulfide	ND		1.0		ug/L			09/15/23 22:27	1
Carbon tetrachloride	ND		1.0		ug/L			09/15/23 22:27	1
Chlorobenzene	ND		1.0		ug/L			09/15/23 22:27	1
Dibromochloromethane	ND		1.0		ug/L			09/15/23 22:27	1
Chloroethane	ND		1.0		ug/L			09/15/23 22:27	1
Chloroform	ND		1.0		ug/L			09/15/23 22:27	1
Chloromethane	ND		1.0		ug/L			09/15/23 22:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 22:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 22:27	1
Dibromomethane	ND		1.0		ug/L			09/15/23 22:27	1
Ethylbenzene	ND		1.0		ug/L			09/15/23 22:27	1
1,2-Dibromoethane	ND		1.0		ug/L			09/15/23 22:27	1
Iodomethane	ND		1.0		ug/L			09/15/23 22:27	1
Methylene Chloride	ND		1.0		ug/L			09/15/23 22:27	1
Styrene	ND		1.0		ug/L			09/15/23 22:27	1
Tetrachloroethene	ND		1.0		ug/L			09/15/23 22:27	1
Trichlorofluoromethane	ND		1.0		ug/L			09/15/23 22:27	1
Trichloroethene	ND		1.0		ug/L			09/15/23 22:27	1
Toluene	ND		1.0		ug/L			09/15/23 22:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 22:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 22:27	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/15/23 22:27	1
Vinyl acetate	ND		5.0		ug/L			09/15/23 22:27	1
Vinyl chloride	ND		1.0		ug/L			09/15/23 22:27	1
Xylenes, Total	ND		2.0		ug/L			09/15/23 22:27	1
m,p-Xylene	ND		2.0		ug/L			09/15/23 22:27	1
o-Xylene	ND		1.0		ug/L			09/15/23 22:27	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: CD-1

Date Collected: 09/13/23 11:00
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*09/15/23 22:27*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/15/23 22:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/15/23 22:27*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11.7**		0.20		mg/L		09/15/23 08:21	09/20/23 15:11	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:11	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:04	1
Barium	**0.27**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:04	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:11	1
Boron	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:11	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:11	1
Calcium	**49.1**		0.50		mg/L		09/15/23 08:21	09/20/23 15:11	1
Chromium	**0.018**		0.0040		mg/L		09/15/23 08:21	09/20/23 15:11	1
Cobalt	**0.0072**		0.0040		mg/L		09/15/23 08:21	09/20/23 15:11	1
Copper	**0.019**		0.010		mg/L		09/15/23 08:21	09/20/23 15:11	1
Iron	**16.1**		0.050		mg/L		09/15/23 08:21	09/20/23 15:11	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:11	1
Magnesium	**13.3**		0.20		mg/L		09/15/23 08:21	09/20/23 15:11	1
Manganese	**3.0**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:11	1
Nickel	**0.016**		0.010		mg/L		09/15/23 08:21	09/20/23 15:11	1
Potassium	**3.9**		0.50		mg/L		09/15/23 08:21	09/20/23 15:11	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:11	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:11	1
Sodium	**4.3**		1.0		mg/L		09/15/23 08:21	09/20/23 15:11	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:11	1
Vanadium	**0.018**		0.0050		mg/L		09/15/23 08:21	09/20/23 15:11	1
Zinc	**0.043**		0.010		mg/L		09/15/23 08:21	09/20/23 15:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:15	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**178**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 22:38	1
Alkalinity, Total (EPA 310.2)	**138**		20.0		mg/L			09/25/23 17:49	2
Cyanide, Total (EPA 335.4)	**0.010**	**F1**	0.010		mg/L			09/18/23 14:53	1
Ammonia (EPA 350.1)	**0.021**		0.020		mg/L			09/15/23 08:28	1
Total Kjeldahl Nitrogen (EPA 351.2	**0.36**		0.20		mg/L		09/14/23 16:00	09/15/23 07:08	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			09/14/23 15:22	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 01:05	1
Chromium, hexavalent (SW846 7196A)	ND	H	0.010		mg/L			09/14/23 11:05	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: CD-1
Lab Sample ID: 480-212651-1
Date Collected: 09/13/23 11:00
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**16.4**		5.0		mg/L			09/19/23 16:05	1
Total Dissolved Solids (SM 2540C)	**155**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**1.1**		1.0		mg/L			09/20/23 11:28	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/15/23 16:43	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/15/23 16:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**10.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: CD-1RA
Lab Sample ID: 480-212651-2
Date Collected: 09/13/23 11:10
Matrix: Water
Date Received: 09/14/23 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 22:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/15/23 22:49	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 22:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/15/23 22:49	1
1,1-Dichloroethane	ND		1.0		ug/L			09/15/23 22:49	1
1,1-Dichloroethene	ND		1.0		ug/L			09/15/23 22:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/15/23 22:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/15/23 22:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/15/23 22:49	1
1,2-Dichloroethane	ND		1.0		ug/L			09/15/23 22:49	1
1,2-Dichloropropane	ND		1.0		ug/L			09/15/23 22:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/15/23 22:49	1
2-Butanone (MEK)	ND		10		ug/L			09/15/23 22:49	1
2-Hexanone	ND		5.0		ug/L			09/15/23 22:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/15/23 22:49	1
Acetone	ND		10		ug/L			09/15/23 22:49	1
Acrylonitrile	ND		5.0		ug/L			09/15/23 22:49	1
Benzene	ND		1.0		ug/L			09/15/23 22:49	1
Chlorobromomethane	ND		1.0		ug/L			09/15/23 22:49	1
Bromodichloromethane	ND		1.0		ug/L			09/15/23 22:49	1
Bromoform	ND		1.0		ug/L			09/15/23 22:49	1
Bromomethane	ND		1.0		ug/L			09/15/23 22:49	1
Carbon disulfide	ND		1.0		ug/L			09/15/23 22:49	1
Carbon tetrachloride	ND		1.0		ug/L			09/15/23 22:49	1
Chlorobenzene	ND		1.0		ug/L			09/15/23 22:49	1
Dibromochloromethane	ND		1.0		ug/L			09/15/23 22:49	1
Chloroethane	ND		1.0		ug/L			09/15/23 22:49	1
Chloroform	ND		1.0		ug/L			09/15/23 22:49	1
Chloromethane	ND		1.0		ug/L			09/15/23 22:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 22:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 22:49	1
Dibromomethane	ND		1.0		ug/L			09/15/23 22:49	1
Ethylbenzene	ND		1.0		ug/L			09/15/23 22:49	1
1,2-Dibromoethane	ND		1.0		ug/L			09/15/23 22:49	1
Iodomethane	ND		1.0		ug/L			09/15/23 22:49	1
Methylene Chloride	ND		1.0		ug/L			09/15/23 22:49	1
Styrene	ND		1.0		ug/L			09/15/23 22:49	1
Tetrachloroethene	ND		1.0		ug/L			09/15/23 22:49	1
Trichlorofluoromethane	ND		1.0		ug/L			09/15/23 22:49	1
Trichloroethene	ND		1.0		ug/L			09/15/23 22:49	1
Toluene	ND		1.0		ug/L			09/15/23 22:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 22:49	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 22:49	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/15/23 22:49	1
Vinyl acetate	ND		5.0		ug/L			09/15/23 22:49	1
Vinyl chloride	ND		1.0		ug/L			09/15/23 22:49	1
Xylenes, Total	ND		2.0		ug/L			09/15/23 22:49	1
m,p-Xylene	ND		2.0		ug/L			09/15/23 22:49	1
o-Xylene	ND		1.0		ug/L			09/15/23 22:49	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: CD-1RA

Date Collected: 09/13/23 11:10
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*09/15/23 22:49*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/15/23 22:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*09/15/23 22:49*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.7**		0.20		mg/L		09/15/23 08:21	09/20/23 15:15	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:15	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:07	1
Barium	**0.17**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:07	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:15	1
Boron	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:15	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:15	1
Calcium	**45.3**		0.50		mg/L		09/15/23 08:21	09/20/23 15:15	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:15	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:15	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:15	1
Iron	**2.2**		0.050		mg/L		09/15/23 08:21	09/20/23 15:15	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:15	1
Magnesium	**10.6**		0.20		mg/L		09/15/23 08:21	09/20/23 15:15	1
Manganese	**0.26**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:15	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:15	1
Potassium	**1.2**		0.50		mg/L		09/15/23 08:21	09/20/23 15:15	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:15	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:15	1
Sodium	**5.2**		1.0		mg/L		09/15/23 08:21	09/20/23 15:15	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:15	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:15	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:19	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**157**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 22:58	1
Alkalinity, Total (EPA 310.2)	**149**		20.0		mg/L			09/25/23 17:49	2
Cyanide, Total (EPA 335.4)	**0.010**		0.010		mg/L			09/18/23 14:58	1
Ammonia (EPA 350.1)	**0.057**		0.020		mg/L			09/15/23 08:29	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		09/14/23 16:00	09/15/23 07:08	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			09/14/23 15:24	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 01:09	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: CD-1RA
Lab Sample ID: 480-212651-2
Date Collected: 09/13/23 11:10
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**15.4**		5.0		mg/L			09/19/23 16:06	1
Total Dissolved Solids (SM 2540C)	**164**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**1.4**		1.0		mg/L			09/20/23 11:28	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/15/23 17:42	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/15/23 17:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**10.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-1A
Lab Sample ID: 480-212651-3
Date Collected: 09/13/23 14:30
Matrix: Water
Date Received: 09/14/23 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 23:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/15/23 23:11	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 23:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/15/23 23:11	1
1,1-Dichloroethane	ND		1.0		ug/L			09/15/23 23:11	1
1,1-Dichloroethene	ND		1.0		ug/L			09/15/23 23:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/15/23 23:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/15/23 23:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/15/23 23:11	1
1,2-Dichloroethane	ND		1.0		ug/L			09/15/23 23:11	1
1,2-Dichloropropane	ND		1.0		ug/L			09/15/23 23:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/15/23 23:11	1
2-Butanone (MEK)	ND		10		ug/L			09/15/23 23:11	1
2-Hexanone	ND		5.0		ug/L			09/15/23 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/15/23 23:11	1
Acetone	ND		10		ug/L			09/15/23 23:11	1
Acrylonitrile	ND		5.0		ug/L			09/15/23 23:11	1
Benzene	ND		1.0		ug/L			09/15/23 23:11	1
Chlorobromomethane	ND		1.0		ug/L			09/15/23 23:11	1
Bromodichloromethane	ND		1.0		ug/L			09/15/23 23:11	1
Bromoform	ND		1.0		ug/L			09/15/23 23:11	1
Bromomethane	ND		1.0		ug/L			09/15/23 23:11	1
Carbon disulfide	ND		1.0		ug/L			09/15/23 23:11	1
Carbon tetrachloride	ND		1.0		ug/L			09/15/23 23:11	1
Chlorobenzene	ND		1.0		ug/L			09/15/23 23:11	1
Dibromochloromethane	ND		1.0		ug/L			09/15/23 23:11	1
Chloroethane	ND		1.0		ug/L			09/15/23 23:11	1
Chloroform	ND		1.0		ug/L			09/15/23 23:11	1
Chloromethane	ND		1.0		ug/L			09/15/23 23:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 23:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 23:11	1
Dibromomethane	ND		1.0		ug/L			09/15/23 23:11	1
Ethylbenzene	ND		1.0		ug/L			09/15/23 23:11	1
1,2-Dibromoethane	ND		1.0		ug/L			09/15/23 23:11	1
Iodomethane	ND		1.0		ug/L			09/15/23 23:11	1
Methylene Chloride	ND		1.0		ug/L			09/15/23 23:11	1
Styrene	ND		1.0		ug/L			09/15/23 23:11	1
Tetrachloroethene	ND		1.0		ug/L			09/15/23 23:11	1
Trichlorofluoromethane	ND		1.0		ug/L			09/15/23 23:11	1
Trichloroethene	ND		1.0		ug/L			09/15/23 23:11	1
Toluene	ND		1.0		ug/L			09/15/23 23:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 23:11	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 23:11	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/15/23 23:11	1
Vinyl acetate	ND		5.0		ug/L			09/15/23 23:11	1
Vinyl chloride	ND		1.0		ug/L			09/15/23 23:11	1
Xylenes, Total	ND		2.0		ug/L			09/15/23 23:11	1
m,p-Xylene	ND		2.0		ug/L			09/15/23 23:11	1
o-Xylene	ND		1.0		ug/L			09/15/23 23:11	1

Client Sample ID: MW-1A
Date Collected: 09/13/23 14:30
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*09/15/23 23:11*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/15/23 23:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/15/23 23:11*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.0**		0.20		mg/L		09/15/23 08:21	09/20/23 15:18	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:18	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:10	1
Barium	**0.11**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:10	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:18	1
Boron	**0.021**		0.020		mg/L		09/15/23 08:21	09/20/23 15:18	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:18	1
Calcium	**47.8**		0.50		mg/L		09/15/23 08:21	09/20/23 15:18	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:18	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:18	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:18	1
Iron	**1.4**		0.050		mg/L		09/15/23 08:21	09/20/23 15:18	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:18	1
Magnesium	**11.0**		0.20		mg/L		09/15/23 08:21	09/20/23 15:18	1
Manganese	**1.7**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:18	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:18	1
Potassium	**1.3**		0.50		mg/L		09/15/23 08:21	09/20/23 15:18	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:18	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:18	1
Sodium	**12.7**		1.0		mg/L		09/15/23 08:21	09/20/23 15:18	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:18	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:18	1
Zinc	**0.012**		0.010		mg/L		09/15/23 08:21	09/20/23 15:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:20	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**165**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 23:17	1
Alkalinity, Total (EPA 310.2)	**126**		20.0		mg/L			09/25/23 17:53	2
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:01	1
Ammonia (EPA 350.1)	**0.065**		0.020		mg/L			09/15/23 08:30	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		09/14/23 16:00	09/15/23 07:08	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			09/14/23 15:25	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 01:13	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-1A
Lab Sample ID: 480-212651-3
Date Collected: 09/13/23 14:30
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**16.1**		5.0		mg/L			09/19/23 16:06	1
Total Dissolved Solids (SM 2540C)	**219**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**35.3**		1.0		mg/L			09/20/23 11:29	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/15/23 20:40	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/15/23 20:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**5.00**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-1B
Lab Sample ID: 480-212651-4
Date Collected: 09/13/23 14:25
Matrix: Water
Date Received: 09/14/23 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 23:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/15/23 23:33	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 23:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/15/23 23:33	1
1,1-Dichloroethane	ND		1.0		ug/L			09/15/23 23:33	1
1,1-Dichloroethene	ND		1.0		ug/L			09/15/23 23:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/15/23 23:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/15/23 23:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/15/23 23:33	1
1,2-Dichloroethane	ND		1.0		ug/L			09/15/23 23:33	1
1,2-Dichloropropane	ND		1.0		ug/L			09/15/23 23:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/15/23 23:33	1
2-Butanone (MEK)	ND		10		ug/L			09/15/23 23:33	1
2-Hexanone	ND		5.0		ug/L			09/15/23 23:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/15/23 23:33	1
Acetone	ND		10		ug/L			09/15/23 23:33	1
Acrylonitrile	ND		5.0		ug/L			09/15/23 23:33	1
Benzene	ND		1.0		ug/L			09/15/23 23:33	1
Chlorobromomethane	ND		1.0		ug/L			09/15/23 23:33	1
Bromodichloromethane	ND		1.0		ug/L			09/15/23 23:33	1
Bromoform	ND		1.0		ug/L			09/15/23 23:33	1
Bromomethane	ND		1.0		ug/L			09/15/23 23:33	1
Carbon disulfide	ND		1.0		ug/L			09/15/23 23:33	1
Carbon tetrachloride	ND		1.0		ug/L			09/15/23 23:33	1
Chlorobenzene	ND		1.0		ug/L			09/15/23 23:33	1
Dibromochloromethane	ND		1.0		ug/L			09/15/23 23:33	1
Chloroethane	ND		1.0		ug/L			09/15/23 23:33	1
Chloroform	ND		1.0		ug/L			09/15/23 23:33	1
Chloromethane	ND		1.0		ug/L			09/15/23 23:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 23:33	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 23:33	1
Dibromomethane	ND		1.0		ug/L			09/15/23 23:33	1
Ethylbenzene	ND		1.0		ug/L			09/15/23 23:33	1
1,2-Dibromoethane	ND		1.0		ug/L			09/15/23 23:33	1
Iodomethane	ND		1.0		ug/L			09/15/23 23:33	1
Methylene Chloride	ND		1.0		ug/L			09/15/23 23:33	1
Styrene	ND		1.0		ug/L			09/15/23 23:33	1
Tetrachloroethene	ND		1.0		ug/L			09/15/23 23:33	1
Trichlorofluoromethane	ND		1.0		ug/L			09/15/23 23:33	1
Trichloroethene	ND		1.0		ug/L			09/15/23 23:33	1
Toluene	ND		1.0		ug/L			09/15/23 23:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 23:33	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 23:33	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/15/23 23:33	1
Vinyl acetate	ND		5.0		ug/L			09/15/23 23:33	1
Vinyl chloride	ND		1.0		ug/L			09/15/23 23:33	1
Xylenes, Total	ND		2.0		ug/L			09/15/23 23:33	1
m,p-Xylene	ND		2.0		ug/L			09/15/23 23:33	1
o-Xylene	ND		1.0		ug/L			09/15/23 23:33	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-1B
Date Collected: 09/13/23 14:25
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*09/15/23 23:33*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/15/23 23:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/15/23 23:33*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/15/23 08:21	09/20/23 15:31	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:31	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:24	1
Barium	**0.17**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:24	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:31	1
Boron	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:31	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:31	1
Calcium	**25.3**		0.50		mg/L		09/15/23 08:21	09/20/23 15:31	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:31	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:31	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:31	1
Iron	ND		0.050		mg/L		09/15/23 08:21	09/21/23 16:24	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:31	1
Magnesium	**6.1**		0.20		mg/L		09/15/23 08:21	09/20/23 15:31	1
Manganese	**0.16**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:31	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:31	1
Potassium	ND		0.50		mg/L		09/15/23 08:21	09/20/23 15:31	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:31	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:31	1
Sodium	**6.7**		1.0		mg/L		09/15/23 08:21	09/20/23 15:31	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:31	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:31	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:22	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**88.0**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/16/23 23:37	1
Alkalinity, Total (EPA 310.2)	**96.2**		10.0		mg/L			09/25/23 17:06	1
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:03	1
Ammonia (EPA 350.1)	**0.024**		0.020		mg/L			09/15/23 08:34	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		09/14/23 16:00	09/15/23 07:17	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			09/14/23 15:27	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 01:16	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-1B
Lab Sample ID: 480-212651-4
Date Collected: 09/13/23 14:25
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**8.1**		5.0		mg/L			09/19/23 16:07	1
Total Dissolved Solids (SM 2540C)	**88.0**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**5.0**		1.0		mg/L			09/20/23 11:29	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/15/23 21:39	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/15/23 21:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**5.00**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-2A
Date Collected: 09/13/23 13:35
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 23:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/15/23 23:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 23:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/15/23 23:55	1
1,1-Dichloroethane	ND		1.0		ug/L			09/15/23 23:55	1
1,1-Dichloroethene	ND		1.0		ug/L			09/15/23 23:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/15/23 23:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/15/23 23:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/15/23 23:55	1
1,2-Dichloroethane	ND		1.0		ug/L			09/15/23 23:55	1
1,2-Dichloropropane	ND		1.0		ug/L			09/15/23 23:55	1
1,4-Dichlorobenzene	**1.1**		1.0		ug/L			09/15/23 23:55	1
2-Butanone (MEK)	ND		10		ug/L			09/15/23 23:55	1
2-Hexanone	ND		5.0		ug/L			09/15/23 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/15/23 23:55	1
Acetone	ND		10		ug/L			09/15/23 23:55	1
Acrylonitrile	ND		5.0		ug/L			09/15/23 23:55	1
Benzene	ND		1.0		ug/L			09/15/23 23:55	1
Chlorobromomethane	ND		1.0		ug/L			09/15/23 23:55	1
Bromodichloromethane	ND		1.0		ug/L			09/15/23 23:55	1
Bromoform	ND		1.0		ug/L			09/15/23 23:55	1
Bromomethane	ND		1.0		ug/L			09/15/23 23:55	1
Carbon disulfide	ND		1.0		ug/L			09/15/23 23:55	1
Carbon tetrachloride	ND		1.0		ug/L			09/15/23 23:55	1
Chlorobenzene	**1.9**		1.0		ug/L			09/15/23 23:55	1
Dibromochloromethane	ND		1.0		ug/L			09/15/23 23:55	1
Chloroethane	ND		1.0		ug/L			09/15/23 23:55	1
Chloroform	ND		1.0		ug/L			09/15/23 23:55	1
Chloromethane	ND		1.0		ug/L			09/15/23 23:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 23:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 23:55	1
Dibromomethane	ND		1.0		ug/L			09/15/23 23:55	1
Ethylbenzene	ND		1.0		ug/L			09/15/23 23:55	1
1,2-Dibromoethane	ND		1.0		ug/L			09/15/23 23:55	1
Iodomethane	ND		1.0		ug/L			09/15/23 23:55	1
Methylene Chloride	ND		1.0		ug/L			09/15/23 23:55	1
Styrene	ND		1.0		ug/L			09/15/23 23:55	1
Tetrachloroethene	ND		1.0		ug/L			09/15/23 23:55	1
Trichlorofluoromethane	ND		1.0		ug/L			09/15/23 23:55	1
Trichloroethene	ND		1.0		ug/L			09/15/23 23:55	1
Toluene	ND		1.0		ug/L			09/15/23 23:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 23:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 23:55	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/15/23 23:55	1
Vinyl acetate	ND		5.0		ug/L			09/15/23 23:55	1
Vinyl chloride	ND		1.0		ug/L			09/15/23 23:55	1
Xylenes, Total	ND		2.0		ug/L			09/15/23 23:55	1
m,p-Xylene	ND		2.0		ug/L			09/15/23 23:55	1
o-Xylene	ND		1.0		ug/L			09/15/23 23:55	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-2A

Date Collected: 09/13/23 13:35
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*09/15/23 23:55*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/15/23 23:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/15/23 23:55*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/15/23 08:21	09/20/23 15:35	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:35	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:27	1
Barium	**0.32**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:27	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:35	1
Boron	**0.19**		0.020		mg/L		09/15/23 08:21	09/20/23 15:35	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:35	1
Calcium	**62.3**		0.50		mg/L		09/15/23 08:21	09/20/23 15:35	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:35	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:35	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:35	1
Iron	**2.2**		0.050		mg/L		09/15/23 08:21	09/21/23 16:27	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:35	1
Magnesium	**12.5**		0.20		mg/L		09/15/23 08:21	09/20/23 15:35	1
Manganese	**8.4**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:35	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:35	1
Potassium	**9.2**		0.50		mg/L		09/15/23 08:21	09/20/23 15:35	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:35	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:35	1
Sodium	**11.4**		1.0		mg/L		09/15/23 08:21	09/20/23 15:35	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:35	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:35	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**207**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.40		mg/L			09/17/23 01:15	2
Alkalinity, Total (EPA 310.2)	**268**		50.0		mg/L			09/25/23 18:37	5
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:06	1
Ammonia (EPA 350.1)	**7.4**		0.10		mg/L			09/15/23 08:35	5
Total Kjeldahl Nitrogen (EPA 351.2	**6.0**		0.40		mg/L		09/18/23 17:00	09/19/23 12:16	2
Nitrate as N (EPA 353.2)	**0.17**		0.050		mg/L			09/14/23 15:28	1
Chemical Oxygen Demand (EPA 410.4)	ND	F1	10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 01:20	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-2A
Lab Sample ID: 480-212651-5
Date Collected: 09/13/23 13:35
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	ND		5.0		mg/L			09/19/23 16:07	1
Total Dissolved Solids (SM 2540C)	**259**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**11.3**		1.0		mg/L			09/20/23 11:30	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	**4.3**		1.0		mg/L			09/16/23 03:33	1
TOC Result 2 (SM 5310C)	**4.5**		1.0		mg/L			09/16/23 03:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**35.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-2B
Date Collected: 09/13/23 13:45
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-6
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 00:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/16/23 00:17	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 00:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/16/23 00:17	1
1,1-Dichloroethane	ND		1.0		ug/L			09/16/23 00:17	1
1,1-Dichloroethene	ND		1.0		ug/L			09/16/23 00:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/16/23 00:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/16/23 00:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/16/23 00:17	1
1,2-Dichloroethane	ND		1.0		ug/L			09/16/23 00:17	1
1,2-Dichloropropane	ND		1.0		ug/L			09/16/23 00:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/16/23 00:17	1
2-Butanone (MEK)	ND		10		ug/L			09/16/23 00:17	1
2-Hexanone	ND		5.0		ug/L			09/16/23 00:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/16/23 00:17	1
Acetone	ND		10		ug/L			09/16/23 00:17	1
Acrylonitrile	ND		5.0		ug/L			09/16/23 00:17	1
Benzene	ND		1.0		ug/L			09/16/23 00:17	1
Chlorobromomethane	ND		1.0		ug/L			09/16/23 00:17	1
Bromodichloromethane	ND		1.0		ug/L			09/16/23 00:17	1
Bromoform	ND		1.0		ug/L			09/16/23 00:17	1
Bromomethane	ND		1.0		ug/L			09/16/23 00:17	1
Carbon disulfide	ND		1.0		ug/L			09/16/23 00:17	1
Carbon tetrachloride	ND		1.0		ug/L			09/16/23 00:17	1
Chlorobenzene	ND		1.0		ug/L			09/16/23 00:17	1
Dibromochloromethane	ND		1.0		ug/L			09/16/23 00:17	1
Chloroethane	**4.3**		1.0		ug/L			09/16/23 00:17	1
Chloroform	ND		1.0		ug/L			09/16/23 00:17	1
Chloromethane	ND		1.0		ug/L			09/16/23 00:17	1
cis-1,2-Dichloroethene	**44**		1.0		ug/L			09/16/23 00:17	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 00:17	1
Dibromomethane	ND		1.0		ug/L			09/16/23 00:17	1
Ethylbenzene	ND		1.0		ug/L			09/16/23 00:17	1
1,2-Dibromoethane	ND		1.0		ug/L			09/16/23 00:17	1
Iodomethane	ND		1.0		ug/L			09/16/23 00:17	1
Methylene Chloride	ND		1.0		ug/L			09/16/23 00:17	1
Styrene	ND		1.0		ug/L			09/16/23 00:17	1
Tetrachloroethene	ND		1.0		ug/L			09/16/23 00:17	1
Trichlorofluoromethane	ND		1.0		ug/L			09/16/23 00:17	1
Trichloroethene	ND		1.0		ug/L			09/16/23 00:17	1
Toluene	ND		1.0		ug/L			09/16/23 00:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 00:17	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 00:17	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/16/23 00:17	1
Vinyl acetate	ND		5.0		ug/L			09/16/23 00:17	1
Vinyl chloride	**16**		1.0		ug/L			09/16/23 00:17	1
Xylenes, Total	ND		2.0		ug/L			09/16/23 00:17	1
m,p-Xylene	ND		2.0		ug/L			09/16/23 00:17	1
o-Xylene	ND		1.0		ug/L			09/16/23 00:17	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-2B

Date Collected: 09/13/23 13:45
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*09/16/23 00:17*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/16/23 00:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/16/23 00:17*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/15/23 08:21	09/20/23 15:38	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:38	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:30	1
Barium	**1.1**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:30	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:38	1
Boron	**0.19**		0.020		mg/L		09/15/23 08:21	09/20/23 15:38	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:38	1
Calcium	**172**		0.50		mg/L		09/15/23 08:21	09/20/23 15:38	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:38	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:38	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:38	1
Iron	**0.29**		0.050		mg/L		09/15/23 08:21	09/21/23 16:30	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:38	1
Magnesium	**36.8**		0.20		mg/L		09/15/23 08:21	09/20/23 15:38	1
Manganese	**4.9**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:38	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:38	1
Potassium	**2.2**		0.50		mg/L		09/15/23 08:21	09/20/23 15:38	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:38	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:38	1
Sodium	**41.3**		1.0		mg/L		09/15/23 08:21	09/20/23 15:38	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:38	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:38	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**582**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.62**		0.40		mg/L			09/17/23 01:35	2
Alkalinity, Total (EPA 310.2)	**620**		100		mg/L			09/25/23 18:59	10
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:09	1
Ammonia (EPA 350.1)	**0.66**		0.020		mg/L			09/15/23 09:43	1
Total Kjeldahl Nitrogen (EPA 351.2	**1.1**		0.20		mg/L		09/14/23 16:00	09/15/23 07:17	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			09/14/23 15:32	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 01:49	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-2B
Lab Sample ID: 480-212651-6
Date Collected: 09/13/23 13:45
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	ND		5.0		mg/L			09/19/23 16:08	1
Total Dissolved Solids (SM 2540C)	**683**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**86.5**		5.0		mg/L			09/20/23 11:47	5
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	**3.7**		1.0		mg/L			09/16/23 04:32	1
TOC Result 2 (SM 5310C)	**3.6**		1.0		mg/L			09/16/23 04:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**10.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-3A

Date Collected: 09/13/23 12:40
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 00:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/16/23 00:39	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 00:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/16/23 00:39	1
1,1-Dichloroethane	ND		1.0		ug/L			09/16/23 00:39	1
1,1-Dichloroethene	ND		1.0		ug/L			09/16/23 00:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/16/23 00:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/16/23 00:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/16/23 00:39	1
1,2-Dichloroethane	ND		1.0		ug/L			09/16/23 00:39	1
1,2-Dichloropropane	ND		1.0		ug/L			09/16/23 00:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/16/23 00:39	1
2-Butanone (MEK)	ND		10		ug/L			09/16/23 00:39	1
2-Hexanone	ND		5.0		ug/L			09/16/23 00:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/16/23 00:39	1
Acetone	ND		10		ug/L			09/16/23 00:39	1
Acrylonitrile	ND		5.0		ug/L			09/16/23 00:39	1
Benzene	ND		1.0		ug/L			09/16/23 00:39	1
Chlorobromomethane	ND		1.0		ug/L			09/16/23 00:39	1
Bromodichloromethane	ND		1.0		ug/L			09/16/23 00:39	1
Bromoform	ND		1.0		ug/L			09/16/23 00:39	1
Bromomethane	ND		1.0		ug/L			09/16/23 00:39	1
Carbon disulfide	ND		1.0		ug/L			09/16/23 00:39	1
Carbon tetrachloride	ND		1.0		ug/L			09/16/23 00:39	1
Chlorobenzene	ND		1.0		ug/L			09/16/23 00:39	1
Dibromochloromethane	ND		1.0		ug/L			09/16/23 00:39	1
Chloroethane	ND		1.0		ug/L			09/16/23 00:39	1
Chloroform	ND		1.0		ug/L			09/16/23 00:39	1
Chloromethane	ND		1.0		ug/L			09/16/23 00:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 00:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 00:39	1
Dibromomethane	ND		1.0		ug/L			09/16/23 00:39	1
Ethylbenzene	ND		1.0		ug/L			09/16/23 00:39	1
1,2-Dibromoethane	ND		1.0		ug/L			09/16/23 00:39	1
Iodomethane	ND		1.0		ug/L			09/16/23 00:39	1
Methylene Chloride	ND		1.0		ug/L			09/16/23 00:39	1
Styrene	ND		1.0		ug/L			09/16/23 00:39	1
Tetrachloroethene	ND		1.0		ug/L			09/16/23 00:39	1
Trichlorofluoromethane	ND		1.0		ug/L			09/16/23 00:39	1
Trichloroethene	ND		1.0		ug/L			09/16/23 00:39	1
Toluene	ND		1.0		ug/L			09/16/23 00:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 00:39	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 00:39	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/16/23 00:39	1
Vinyl acetate	ND		5.0		ug/L			09/16/23 00:39	1
Vinyl chloride	ND		1.0		ug/L			09/16/23 00:39	1
Xylenes, Total	ND		2.0		ug/L			09/16/23 00:39	1
m,p-Xylene	ND		2.0		ug/L			09/16/23 00:39	1
o-Xylene	ND		1.0		ug/L			09/16/23 00:39	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-3A

Date Collected: 09/13/23 12:40
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*09/16/23 00:39*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/16/23 00:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/16/23 00:39*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.57**		0.20		mg/L		09/15/23 08:21	09/20/23 15:41	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:41	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:34	1
Barium	**0.39**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:34	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:41	1
Boron	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:41	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:41	1
Calcium	**30.4**		0.50		mg/L		09/15/23 08:21	09/20/23 15:41	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:41	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:41	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:41	1
Iron	**0.64**		0.050		mg/L		09/15/23 08:21	09/21/23 16:34	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:41	1
Magnesium	**5.8**		0.20		mg/L		09/15/23 08:21	09/20/23 15:41	1
Manganese	**0.39**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:41	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:41	1
Potassium	**1.2**		0.50		mg/L		09/15/23 08:21	09/20/23 15:41	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:41	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:41	1
Sodium	**2.9**		1.0		mg/L		09/15/23 08:21	09/20/23 15:41	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:41	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:41	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**100**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/17/23 01:55	1
Alkalinity, Total (EPA 310.2)	**73.1**		10.0		mg/L			09/25/23 17:06	1
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:11	1
Ammonia (EPA 350.1)	**0.060**		0.020		mg/L			09/15/23 08:37	1
Total Kjeldahl Nitrogen (EPA 351.2	**0.66**		0.20		mg/L		09/14/23 16:00	09/15/23 07:18	1
Nitrate as N (EPA 353.2)	**0.090**		0.050		mg/L			09/14/23 15:35	1
Chemical Oxygen Demand (EPA 410.4)	**30.4**		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND	F1	0.010		mg/L			09/15/23 01:57	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-3A
Lab Sample ID: 480-212651-7
Date Collected: 09/13/23 12:40
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	ND		5.0		mg/L			09/19/23 16:09	1
Total Dissolved Solids (SM 2540C)	**105**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**1.6**		1.0		mg/L			09/20/23 11:34	1
Biochemical Oxygen Demand (SM 5210B)	**4.6**		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	**7.7**		1.0		mg/L			09/16/23 07:00	1
TOC Result 2 (SM 5310C)	**8.4**		1.0		mg/L			09/16/23 07:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**50.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-3B
Lab Sample ID: 480-212651-8
Date Collected: 09/13/23 12:45
Matrix: Water
Date Received: 09/14/23 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 01:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/16/23 01:01	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 01:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/16/23 01:01	1
1,1-Dichloroethane	ND		1.0		ug/L			09/16/23 01:01	1
1,1-Dichloroethene	ND		1.0		ug/L			09/16/23 01:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/16/23 01:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/16/23 01:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/16/23 01:01	1
1,2-Dichloroethane	ND		1.0		ug/L			09/16/23 01:01	1
1,2-Dichloropropane	ND		1.0		ug/L			09/16/23 01:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/16/23 01:01	1
2-Butanone (MEK)	ND		10		ug/L			09/16/23 01:01	1
2-Hexanone	ND		5.0		ug/L			09/16/23 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/16/23 01:01	1
Acetone	ND		10		ug/L			09/16/23 01:01	1
Acrylonitrile	ND		5.0		ug/L			09/16/23 01:01	1
Benzene	ND		1.0		ug/L			09/16/23 01:01	1
Chlorobromomethane	ND		1.0		ug/L			09/16/23 01:01	1
Bromodichloromethane	ND		1.0		ug/L			09/16/23 01:01	1
Bromoform	ND		1.0		ug/L			09/16/23 01:01	1
Bromomethane	ND		1.0		ug/L			09/16/23 01:01	1
Carbon disulfide	ND		1.0		ug/L			09/16/23 01:01	1
Carbon tetrachloride	ND		1.0		ug/L			09/16/23 01:01	1
Chlorobenzene	ND		1.0		ug/L			09/16/23 01:01	1
Dibromochloromethane	ND		1.0		ug/L			09/16/23 01:01	1
Chloroethane	ND		1.0		ug/L			09/16/23 01:01	1
Chloroform	ND		1.0		ug/L			09/16/23 01:01	1
Chloromethane	ND		1.0		ug/L			09/16/23 01:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 01:01	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 01:01	1
Dibromomethane	ND		1.0		ug/L			09/16/23 01:01	1
Ethylbenzene	ND		1.0		ug/L			09/16/23 01:01	1
1,2-Dibromoethane	ND		1.0		ug/L			09/16/23 01:01	1
Iodomethane	ND		1.0		ug/L			09/16/23 01:01	1
Methylene Chloride	ND		1.0		ug/L			09/16/23 01:01	1
Styrene	ND		1.0		ug/L			09/16/23 01:01	1
Tetrachloroethene	ND		1.0		ug/L			09/16/23 01:01	1
Trichlorofluoromethane	ND		1.0		ug/L			09/16/23 01:01	1
Trichloroethene	ND		1.0		ug/L			09/16/23 01:01	1
Toluene	ND		1.0		ug/L			09/16/23 01:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 01:01	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 01:01	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/16/23 01:01	1
Vinyl acetate	ND		5.0		ug/L			09/16/23 01:01	1
Vinyl chloride	ND		1.0		ug/L			09/16/23 01:01	1
Xylenes, Total	ND		2.0		ug/L			09/16/23 01:01	1
m,p-Xylene	ND		2.0		ug/L			09/16/23 01:01	1
o-Xylene	ND		1.0		ug/L			09/16/23 01:01	1

Client Sample ID: MW-3B
Date Collected: 09/13/23 12:45
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*09/16/23 01:01*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/16/23 01:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/16/23 01:01*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/15/23 08:21	09/20/23 15:45	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:45	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:37	1
Barium	**0.18**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:37	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:45	1
Boron	**0.028**		0.020		mg/L		09/15/23 08:21	09/20/23 15:45	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:45	1
Calcium	**45.5**		0.50		mg/L		09/15/23 08:21	09/20/23 15:45	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:45	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:45	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:45	1
Iron	**0.094**		0.050		mg/L		09/15/23 08:21	09/21/23 16:37	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:45	1
Magnesium	**13.5**		0.20		mg/L		09/15/23 08:21	09/20/23 15:45	1
Manganese	**0.052**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:45	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:45	1
Potassium	**1.0**		0.50		mg/L		09/15/23 08:21	09/20/23 15:45	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:45	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:45	1
Sodium	**8.2**		1.0		mg/L		09/15/23 08:21	09/20/23 15:45	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:45	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:45	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:30	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**169**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/17/23 02:14	1
Alkalinity, Total (EPA 310.2)	**151**		20.0		mg/L			09/25/23 17:53	2
Cyanide, Total (EPA 335.4)	**0.014**		0.010		mg/L			09/20/23 10:08	1
Ammonia (EPA 350.1)	**0.045**		0.020		mg/L			09/15/23 08:38	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		09/14/23 16:00	09/15/23 07:18	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			09/14/23 15:36	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 02:04	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-3B
Lab Sample ID: 480-212651-8
Date Collected: 09/13/23 12:45
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	**9.1**		5.0		mg/L			09/21/23 09:58	1
Total Dissolved Solids (SM 2540C)	**185**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**21.0**		1.0		mg/L			09/20/23 11:36	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			09/16/23 08:28	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			09/16/23 08:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**10.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-4A
Date Collected: 09/13/23 12:15
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-9
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 01:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/16/23 01:23	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 01:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/16/23 01:23	1
1,1-Dichloroethane	ND		1.0		ug/L			09/16/23 01:23	1
1,1-Dichloroethene	ND		1.0		ug/L			09/16/23 01:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/16/23 01:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/16/23 01:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/16/23 01:23	1
1,2-Dichloroethane	ND		1.0		ug/L			09/16/23 01:23	1
1,2-Dichloropropane	ND		1.0		ug/L			09/16/23 01:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/16/23 01:23	1
2-Butanone (MEK)	ND		10		ug/L			09/16/23 01:23	1
2-Hexanone	ND		5.0		ug/L			09/16/23 01:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/16/23 01:23	1
Acetone	ND		10		ug/L			09/16/23 01:23	1
Acrylonitrile	ND		5.0		ug/L			09/16/23 01:23	1
Benzene	ND		1.0		ug/L			09/16/23 01:23	1
Chlorobromomethane	ND		1.0		ug/L			09/16/23 01:23	1
Bromodichloromethane	ND		1.0		ug/L			09/16/23 01:23	1
Bromoform	ND		1.0		ug/L			09/16/23 01:23	1
Bromomethane	ND		1.0		ug/L			09/16/23 01:23	1
Carbon disulfide	ND		1.0		ug/L			09/16/23 01:23	1
Carbon tetrachloride	ND		1.0		ug/L			09/16/23 01:23	1
Chlorobenzene	ND		1.0		ug/L			09/16/23 01:23	1
Dibromochloromethane	ND		1.0		ug/L			09/16/23 01:23	1
Chloroethane	ND		1.0		ug/L			09/16/23 01:23	1
Chloroform	ND		1.0		ug/L			09/16/23 01:23	1
Chloromethane	ND		1.0		ug/L			09/16/23 01:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 01:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 01:23	1
Dibromomethane	ND		1.0		ug/L			09/16/23 01:23	1
Ethylbenzene	ND		1.0		ug/L			09/16/23 01:23	1
1,2-Dibromoethane	ND		1.0		ug/L			09/16/23 01:23	1
Iodomethane	ND		1.0		ug/L			09/16/23 01:23	1
Methylene Chloride	ND		1.0		ug/L			09/16/23 01:23	1
Styrene	ND		1.0		ug/L			09/16/23 01:23	1
Tetrachloroethene	ND		1.0		ug/L			09/16/23 01:23	1
Trichlorofluoromethane	ND		1.0		ug/L			09/16/23 01:23	1
Trichloroethene	ND		1.0		ug/L			09/16/23 01:23	1
Toluene	ND		1.0		ug/L			09/16/23 01:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 01:23	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 01:23	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/16/23 01:23	1
Vinyl acetate	ND		5.0		ug/L			09/16/23 01:23	1
Vinyl chloride	ND		1.0		ug/L			09/16/23 01:23	1
Xylenes, Total	ND		2.0		ug/L			09/16/23 01:23	1
m,p-Xylene	ND		2.0		ug/L			09/16/23 01:23	1
o-Xylene	ND		1.0		ug/L			09/16/23 01:23	1

Client Sample ID: MW-4A
Date Collected: 09/13/23 12:15
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*09/16/23 01:23*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/16/23 01:23*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/16/23 01:23*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.46**		0.20		mg/L		09/15/23 08:21	09/20/23 15:48	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:48	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:40	1
Barium	**1.1**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:40	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:48	1
Boron	**0.084**		0.020		mg/L		09/15/23 08:21	09/20/23 15:48	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:48	1
Calcium	**128**		0.50		mg/L		09/15/23 08:21	09/20/23 15:48	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:48	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:48	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:48	1
Iron	**0.25**		0.050		mg/L		09/15/23 08:21	09/21/23 16:40	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:48	1
Magnesium	**28.3**		0.20		mg/L		09/15/23 08:21	09/20/23 15:48	1
Manganese	**0.64**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:48	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:48	1
Potassium	**1.6**		0.50		mg/L		09/15/23 08:21	09/20/23 15:48	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:48	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:48	1
Sodium	**17.1**		1.0		mg/L		09/15/23 08:21	09/20/23 15:48	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:48	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:48	1
Zinc	**0.017**		0.010		mg/L		09/15/23 08:21	09/20/23 15:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**436**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.40		mg/L			09/17/23 02:34	2
Alkalinity, Total (EPA 310.2)	**462**		50.0		mg/L			09/25/23 18:37	5
Cyanide, Total (EPA 335.4)	**0.011**		0.010		mg/L			09/18/23 15:32	1
Ammonia (EPA 350.1)	**0.026**		0.020		mg/L			09/15/23 08:44	1
Total Kjeldahl Nitrogen (EPA 351.2	**0.29**		0.20		mg/L		09/14/23 16:00	09/15/23 07:17	1
Nitrate as N (EPA 353.2)	**0.079**		0.050		mg/L			09/14/23 15:37	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 02:08	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-4A
Lab Sample ID: 480-212651-9
Date Collected: 09/13/23 12:15
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	ND	F2 F1	5.0		mg/L			09/21/23 10:14	1
Total Dissolved Solids (SM 2540C)	**464**		10.0		mg/L			09/18/23 11:32	1
Chloride (SM 4500 Cl- E)	**9.9**		1.0		mg/L			09/20/23 11:36	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	**1.4**		1.0		mg/L			09/16/23 09:27	1
TOC Result 2 (SM 5310C)	**1.6**		1.0		mg/L			09/16/23 09:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**15.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-7A
Date Collected: 09/13/23 14:55
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-10
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 01:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/16/23 01:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/16/23 01:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/16/23 01:45	1
1,1-Dichloroethane	**2.1**		1.0		ug/L			09/16/23 01:45	1
1,1-Dichloroethene	ND		1.0		ug/L			09/16/23 01:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/16/23 01:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/16/23 01:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/16/23 01:45	1
1,2-Dichloroethane	ND		1.0		ug/L			09/16/23 01:45	1
1,2-Dichloropropane	ND		1.0		ug/L			09/16/23 01:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/16/23 01:45	1
2-Butanone (MEK)	ND		10		ug/L			09/16/23 01:45	1
2-Hexanone	ND		5.0		ug/L			09/16/23 01:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/16/23 01:45	1
Acetone	ND		10		ug/L			09/16/23 01:45	1
Acrylonitrile	ND		5.0		ug/L			09/16/23 01:45	1
Benzene	ND		1.0		ug/L			09/16/23 01:45	1
Chlorobromomethane	ND		1.0		ug/L			09/16/23 01:45	1
Bromodichloromethane	ND		1.0		ug/L			09/16/23 01:45	1
Bromoform	ND		1.0		ug/L			09/16/23 01:45	1
Bromomethane	ND		1.0		ug/L			09/16/23 01:45	1
Carbon disulfide	ND		1.0		ug/L			09/16/23 01:45	1
Carbon tetrachloride	ND		1.0		ug/L			09/16/23 01:45	1
Chlorobenzene	ND		1.0		ug/L			09/16/23 01:45	1
Dibromochloromethane	ND		1.0		ug/L			09/16/23 01:45	1
Chloroethane	ND		1.0		ug/L			09/16/23 01:45	1
Chloroform	ND		1.0		ug/L			09/16/23 01:45	1
Chloromethane	ND		1.0		ug/L			09/16/23 01:45	1
cis-1,2-Dichloroethene	**2.5**		1.0		ug/L			09/16/23 01:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 01:45	1
Dibromomethane	ND		1.0		ug/L			09/16/23 01:45	1
Ethylbenzene	ND		1.0		ug/L			09/16/23 01:45	1
1,2-Dibromoethane	ND		1.0		ug/L			09/16/23 01:45	1
Iodomethane	ND		1.0		ug/L			09/16/23 01:45	1
Methylene Chloride	ND		1.0		ug/L			09/16/23 01:45	1
Styrene	ND		1.0		ug/L			09/16/23 01:45	1
Tetrachloroethene	ND		1.0		ug/L			09/16/23 01:45	1
Trichlorofluoromethane	ND		1.0		ug/L			09/16/23 01:45	1
Trichloroethene	ND		1.0		ug/L			09/16/23 01:45	1
Toluene	ND		1.0		ug/L			09/16/23 01:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/16/23 01:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/16/23 01:45	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/16/23 01:45	1
Vinyl acetate	ND		5.0		ug/L			09/16/23 01:45	1
Vinyl chloride	ND		1.0		ug/L			09/16/23 01:45	1
Xylenes, Total	ND		2.0		ug/L			09/16/23 01:45	1
m,p-Xylene	ND		2.0		ug/L			09/16/23 01:45	1
o-Xylene	ND		1.0		ug/L			09/16/23 01:45	1

Client Sample ID: MW-7A
Date Collected: 09/13/23 14:55
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*09/16/23 01:45*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/16/23 01:45*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/16/23 01:45*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.0**		0.20		mg/L		09/15/23 08:21	09/20/23 15:51	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:51	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:44	1
Barium	**0.30**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:44	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:51	1
Boron	**0.27**		0.020		mg/L		09/15/23 08:21	09/20/23 15:51	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:51	1
Calcium	**105**		0.50		mg/L		09/15/23 08:21	09/20/23 15:51	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:51	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:51	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:51	1
Iron	**1.7**		0.050		mg/L		09/15/23 08:21	09/21/23 16:44	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:51	1
Magnesium	**21.8**		0.20		mg/L		09/15/23 08:21	09/20/23 15:51	1
Manganese	**2.0**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:51	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:51	1
Potassium	**2.5**		0.50		mg/L		09/15/23 08:21	09/20/23 15:51	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:51	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:51	1
Sodium	**48.6**		1.0		mg/L		09/15/23 08:21	09/20/23 15:51	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:51	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:51	1
Zinc	**0.15**		0.010		mg/L		09/15/23 08:21	09/20/23 15:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:32	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**351**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.40		mg/L			09/17/23 02:54	2
Alkalinity, Total (EPA 310.2)	**393**		50.0		mg/L			09/25/23 18:37	5
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:36	1
Ammonia (EPA 350.1)	**0.048**		0.020		mg/L			09/15/23 08:45	1
Total Kjeldahl Nitrogen (EPA 351.2	**0.50**		0.20		mg/L		09/14/23 16:00	09/15/23 07:18	1
Nitrate as N (EPA 353.2)	**0.15**		0.050		mg/L			09/14/23 15:39	1
Chemical Oxygen Demand (EPA 410.4)	**18.1**		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 02:11	1
Chromium, hexavalent (SW846 7196A)	ND		0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: MW-7A
Lab Sample ID: 480-212651-10
Date Collected: 09/13/23 14:55
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	ND		5.0		mg/L			09/21/23 10:15	1
Total Dissolved Solids (SM 2540C)	**406**		10.0		mg/L			09/18/23 10:59	1
Chloride (SM 4500 Cl- E)	**29.3**		1.0		mg/L			09/20/23 11:39	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	**5.8**		1.0		mg/L			09/16/23 10:26	1
TOC Result 2 (SM 5310C)	**5.8**		1.0		mg/L			09/16/23 10:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**25.0**		5.00		Color Units			09/15/23 10:14	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: DUP
Lab Sample ID: 480-212651-11

Date Collected: 09/13/23 00:00
Matrix: Water
Date Received: 09/14/23 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/18/23 14:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/18/23 14:53	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/18/23 14:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/18/23 14:53	1
1,1-Dichloroethane	**2.1**		1.0		ug/L			09/18/23 14:53	1
1,1-Dichloroethene	ND		1.0		ug/L			09/18/23 14:53	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/18/23 14:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/18/23 14:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/18/23 14:53	1
1,2-Dichloroethane	ND		1.0		ug/L			09/18/23 14:53	1
1,2-Dichloropropane	ND		1.0		ug/L			09/18/23 14:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/18/23 14:53	1
2-Butanone (MEK)	ND	*+	10		ug/L			09/18/23 14:53	1
2-Hexanone	ND		5.0		ug/L			09/18/23 14:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/18/23 14:53	1
Acetone	ND		10		ug/L			09/18/23 14:53	1
Acrylonitrile	ND		5.0		ug/L			09/18/23 14:53	1
Benzene	ND		1.0		ug/L			09/18/23 14:53	1
Chlorobromomethane	ND		1.0		ug/L			09/18/23 14:53	1
Bromodichloromethane	ND		1.0		ug/L			09/18/23 14:53	1
Bromoform	ND		1.0		ug/L			09/18/23 14:53	1
Bromomethane	ND		1.0		ug/L			09/18/23 14:53	1
Carbon disulfide	ND		1.0		ug/L			09/18/23 14:53	1
Carbon tetrachloride	ND		1.0		ug/L			09/18/23 14:53	1
Chlorobenzene	ND		1.0		ug/L			09/18/23 14:53	1
Dibromochloromethane	ND		1.0		ug/L			09/18/23 14:53	1
Chloroethane	ND		1.0		ug/L			09/18/23 14:53	1
Chloroform	ND		1.0		ug/L			09/18/23 14:53	1
Chloromethane	ND		1.0		ug/L			09/18/23 14:53	1
cis-1,2-Dichloroethene	**2.5**		1.0		ug/L			09/18/23 14:53	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/18/23 14:53	1
Dibromomethane	ND		1.0		ug/L			09/18/23 14:53	1
Ethylbenzene	ND		1.0		ug/L			09/18/23 14:53	1
1,2-Dibromoethane	ND		1.0		ug/L			09/18/23 14:53	1
Iodomethane	ND		1.0		ug/L			09/18/23 14:53	1
Methylene Chloride	ND		1.0		ug/L			09/18/23 14:53	1
Styrene	ND		1.0		ug/L			09/18/23 14:53	1
Tetrachloroethene	ND		1.0		ug/L			09/18/23 14:53	1
Trichlorofluoromethane	ND		1.0		ug/L			09/18/23 14:53	1
Trichloroethene	ND		1.0		ug/L			09/18/23 14:53	1
Toluene	ND		1.0		ug/L			09/18/23 14:53	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/18/23 14:53	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/18/23 14:53	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/18/23 14:53	1
Vinyl acetate	ND	*+	5.0		ug/L			09/18/23 14:53	1
Vinyl chloride	ND		1.0		ug/L			09/18/23 14:53	1
Xylenes, Total	ND		2.0		ug/L			09/18/23 14:53	1
m,p-Xylene	ND		2.0		ug/L			09/18/23 14:53	1
o-Xylene	ND		1.0		ug/L			09/18/23 14:53	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: DUP

Date Collected: 09/13/23 00:00
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*09/18/23 14:53*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/18/23 14:53*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*09/18/23 14:53*	*1*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.8**		0.20		mg/L		09/15/23 08:21	09/20/23 15:55	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:55	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/21/23 16:47	1
Barium	**0.32**		0.0020		mg/L		09/15/23 08:21	09/21/23 16:47	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:55	1
Boron	**0.26**		0.020		mg/L		09/15/23 08:21	09/20/23 15:55	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/20/23 15:55	1
Calcium	**104**		0.50		mg/L		09/15/23 08:21	09/20/23 15:55	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:55	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/20/23 15:55	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:55	1
Iron	**3.8**		0.050		mg/L		09/15/23 08:21	09/21/23 16:47	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:55	1
Magnesium	**20.9**		0.20		mg/L		09/15/23 08:21	09/20/23 15:55	1
Manganese	**1.5**		0.0030		mg/L		09/15/23 08:21	09/20/23 15:55	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/20/23 15:55	1
Potassium	**3.1**		0.50		mg/L		09/15/23 08:21	09/20/23 15:55	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/20/23 15:55	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/20/23 15:55	1
Sodium	**45.4**		1.0		mg/L		09/15/23 08:21	09/20/23 15:55	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/20/23 15:55	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/20/23 15:55	1
Zinc	**0.060**		0.010		mg/L		09/15/23 08:21	09/20/23 15:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:33	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**347**		0.50		mg/L			09/22/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			09/17/23 03:13	1
Alkalinity, Total (EPA 310.2)	**421**		50.0		mg/L			09/25/23 18:37	5
Cyanide, Total (EPA 335.4)	ND		0.010		mg/L			09/18/23 15:38	1
Ammonia (EPA 350.1)	**0.12**		0.020		mg/L			09/15/23 08:46	1
Total Kjeldahl Nitrogen (EPA 351.2	**0.84**		0.20		mg/L		09/14/23 16:00	09/15/23 07:18	1
Nitrate as N (EPA 353.2)	**0.16**		0.050		mg/L			09/14/23 15:40	1
Chemical Oxygen Demand (EPA 410.4)	**32.4**		10.0		mg/L			09/22/23 13:48	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			09/15/23 02:15	1
Chromium, hexavalent (SW846 7196A)	ND	H H3	0.010		mg/L			09/14/23 11:05	1

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: DUP
Lab Sample ID: 480-212651-11
Date Collected: 09/13/23 00:00
Matrix: Water
Date Received: 09/14/23 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9038)	ND		5.0		mg/L			09/21/23 10:15	1
Total Dissolved Solids (SM 2540C)	**410**		10.0		mg/L			09/18/23 10:59	1
Chloride (SM 4500 Cl- E)	**28.5**		1.0		mg/L			09/20/23 11:39	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			09/14/23 10:52	1
TOC Result 1 (SM 5310C)	**6.1**		1.0		mg/L			09/16/23 10:55	1
TOC Result 2 (SM 5310C)	**6.1**		1.0		mg/L			09/16/23 10:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color (SM 2120B)	**30.0**	**H**	5.00		Color Units			09/15/23 10:14	1

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-212651-1	CD-1	108	108	103
480-212651-2	CD-1RA	108	105	98
480-212651-3	MW-1A	108	106	101
480-212651-4	MW-1B	107	106	104
480-212651-5	MW-2A	109	105	102
480-212651-6	MW-2B	109	104	102
480-212651-7	MW-3A	111	106	100
480-212651-8	MW-3B	109	104	100
480-212651-9	MW-4A	109	105	103
480-212651-10	MW-7A	111	105	102
480-212651-11	DUP	107	107	108
LCS 480-683686/6	Lab Control Sample	108	105	104
LCS 480-683828/6	Lab Control Sample	110	105	102
LCSD 480-683828/28	Lab Control Sample Dup	110	104	100
MB 480-683686/8	Method Blank	105	105	101
MB 480-683828/8	Method Blank	104	106	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-683686/8
Matrix: Water
Analysis Batch: 683686

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 22:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/15/23 22:05	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/15/23 22:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/15/23 22:05	1
1,1-Dichloroethane	ND		1.0		ug/L			09/15/23 22:05	1
1,1-Dichloroethene	ND		1.0		ug/L			09/15/23 22:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/15/23 22:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/15/23 22:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/15/23 22:05	1
1,2-Dichloroethane	ND		1.0		ug/L			09/15/23 22:05	1
1,2-Dichloropropane	ND		1.0		ug/L			09/15/23 22:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/15/23 22:05	1
2-Butanone (MEK)	ND		10		ug/L			09/15/23 22:05	1
2-Hexanone	ND		5.0		ug/L			09/15/23 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/15/23 22:05	1
Acetone	ND		10		ug/L			09/15/23 22:05	1
Acrylonitrile	ND		5.0		ug/L			09/15/23 22:05	1
Benzene	ND		1.0		ug/L			09/15/23 22:05	1
Chlorobromomethane	ND		1.0		ug/L			09/15/23 22:05	1
Bromodichloromethane	ND		1.0		ug/L			09/15/23 22:05	1
Bromoform	ND		1.0		ug/L			09/15/23 22:05	1
Bromomethane	ND		1.0		ug/L			09/15/23 22:05	1
Carbon disulfide	ND		1.0		ug/L			09/15/23 22:05	1
Carbon tetrachloride	ND		1.0		ug/L			09/15/23 22:05	1
Chlorobenzene	ND		1.0		ug/L			09/15/23 22:05	1
Dibromochloromethane	ND		1.0		ug/L			09/15/23 22:05	1
Chloroethane	ND		1.0		ug/L			09/15/23 22:05	1
Chloroform	ND		1.0		ug/L			09/15/23 22:05	1
Chloromethane	ND		1.0		ug/L			09/15/23 22:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 22:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 22:05	1
Dibromomethane	ND		1.0		ug/L			09/15/23 22:05	1
Ethylbenzene	ND		1.0		ug/L			09/15/23 22:05	1
1,2-Dibromoethane	ND		1.0		ug/L			09/15/23 22:05	1
Iodomethane	ND		1.0		ug/L			09/15/23 22:05	1
Methylene Chloride	ND		1.0		ug/L			09/15/23 22:05	1
Styrene	ND		1.0		ug/L			09/15/23 22:05	1
Tetrachloroethene	ND		1.0		ug/L			09/15/23 22:05	1
Trichlorofluoromethane	ND		1.0		ug/L			09/15/23 22:05	1
Trichloroethene	ND		1.0		ug/L			09/15/23 22:05	1
Toluene	ND		1.0		ug/L			09/15/23 22:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/15/23 22:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/15/23 22:05	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/15/23 22:05	1
Vinyl acetate	ND		5.0		ug/L			09/15/23 22:05	1
Vinyl chloride	ND		1.0		ug/L			09/15/23 22:05	1
Xylenes, Total	ND		2.0		ug/L			09/15/23 22:05	1
m,p-Xylene	ND		2.0		ug/L			09/15/23 22:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-683686/8
Matrix: Water
Analysis Batch: 683686

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			09/15/23 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*09/15/23 22:05*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/15/23 22:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/15/23 22:05*	*1*

Lab Sample ID: LCS 480-683686/6
Matrix: Water
Analysis Batch: 683686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	27.2		ug/L		109	80 - 120
1,1,1-Trichloroethane	25.0	28.1		ug/L		113	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		102	76 - 120
1,1,2-Trichloroethane	25.0	25.4		ug/L		101	76 - 122
1,1-Dichloroethane	25.0	26.6		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	29.3		ug/L		117	66 - 127
1,2,3-Trichloropropane	25.0	25.9		ug/L		104	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.7		ug/L		107	56 - 134
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	26.6		ug/L		106	76 - 120
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	80 - 120
2-Butanone (MEK)	125	146		ug/L		117	57 - 140
2-Hexanone	125	141		ug/L		113	65 - 127
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	71 - 125
Acetone	125	147		ug/L		118	56 - 142
Acrylonitrile	250	277		ug/L		111	63 - 125
Benzene	25.0	27.3		ug/L		109	71 - 124
Chlorobromomethane	25.0	25.8		ug/L		103	72 - 130
Bromodichloromethane	25.0	27.4		ug/L		110	80 - 122
Bromoform	25.0	28.5		ug/L		114	61 - 132
Bromomethane	25.0	25.7		ug/L		103	55 - 144
Carbon disulfide	25.0	27.9		ug/L		112	59 - 134
Carbon tetrachloride	25.0	30.1		ug/L		120	72 - 134
Chlorobenzene	25.0	25.7		ug/L		103	80 - 120
Dibromochloromethane	25.0	27.9		ug/L		111	75 - 125
Chloroethane	25.0	23.8		ug/L		95	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	21.9		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	74 - 124
Dibromomethane	25.0	26.0		ug/L		104	76 - 127
Ethylbenzene	25.0	26.5		ug/L		106	77 - 123
1,2-Dibromoethane	25.0	26.5		ug/L		106	77 - 120
Iodomethane	25.0	27.1		ug/L		109	78 - 123
Methylene Chloride	25.0	26.5		ug/L		106	75 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-683686/6
Matrix: Water
Analysis Batch: 683686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	25.0	25.8		ug/L		103	80 - 120
Tetrachloroethene	25.0	26.1		ug/L		105	74 - 122
Trichlorofluoromethane	25.0	27.1		ug/L		108	62 - 150
Trichloroethene	25.0	27.3		ug/L		109	74 - 123
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	27.1		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	26.6		ug/L		107	80 - 120
trans-1,4-Dichloro-2-butene	25.0	19.1		ug/L		76	41 - 131
Vinyl acetate	50.0	54.3		ug/L		109	50 - 144
Vinyl chloride	25.0	24.3		ug/L		97	65 - 133
m,p-Xylene	25.0	26.3		ug/L		105	76 - 122
o-Xylene	25.0	25.6		ug/L		102	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

Lab Sample ID: MB 480-683828/8
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/18/23 12:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/18/23 12:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/18/23 12:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/18/23 12:26	1
1,1-Dichloroethane	ND		1.0		ug/L			09/18/23 12:26	1
1,1-Dichloroethene	ND		1.0		ug/L			09/18/23 12:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/18/23 12:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/18/23 12:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/18/23 12:26	1
1,2-Dichloroethane	ND		1.0		ug/L			09/18/23 12:26	1
1,2-Dichloropropane	ND		1.0		ug/L			09/18/23 12:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/18/23 12:26	1
2-Butanone (MEK)	ND		10		ug/L			09/18/23 12:26	1
2-Hexanone	ND		5.0		ug/L			09/18/23 12:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/18/23 12:26	1
Acetone	ND		10		ug/L			09/18/23 12:26	1
Acrylonitrile	ND		5.0		ug/L			09/18/23 12:26	1
Benzene	ND		1.0		ug/L			09/18/23 12:26	1
Chlorobromomethane	ND		1.0		ug/L			09/18/23 12:26	1
Bromodichloromethane	ND		1.0		ug/L			09/18/23 12:26	1
Bromoform	ND		1.0		ug/L			09/18/23 12:26	1
Bromomethane	ND		1.0		ug/L			09/18/23 12:26	1
Carbon disulfide	ND		1.0		ug/L			09/18/23 12:26	1
Carbon tetrachloride	ND		1.0		ug/L			09/18/23 12:26	1
Chlorobenzene	ND		1.0		ug/L			09/18/23 12:26	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-683828/8
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0		ug/L			09/18/23 12:26	1
Chloroethane	ND		1.0		ug/L			09/18/23 12:26	1
Chloroform	ND		1.0		ug/L			09/18/23 12:26	1
Chloromethane	ND		1.0		ug/L			09/18/23 12:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/18/23 12:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/18/23 12:26	1
Dibromomethane	ND		1.0		ug/L			09/18/23 12:26	1
Ethylbenzene	ND		1.0		ug/L			09/18/23 12:26	1
1,2-Dibromoethane	ND		1.0		ug/L			09/18/23 12:26	1
Iodomethane	ND		1.0		ug/L			09/18/23 12:26	1
Methylene Chloride	ND		1.0		ug/L			09/18/23 12:26	1
Styrene	ND		1.0		ug/L			09/18/23 12:26	1
Tetrachloroethene	ND		1.0		ug/L			09/18/23 12:26	1
Trichlorofluoromethane	ND		1.0		ug/L			09/18/23 12:26	1
Trichloroethene	ND		1.0		ug/L			09/18/23 12:26	1
Toluene	ND		1.0		ug/L			09/18/23 12:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/18/23 12:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/18/23 12:26	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			09/18/23 12:26	1
Vinyl acetate	ND		5.0		ug/L			09/18/23 12:26	1
Vinyl chloride	ND		1.0		ug/L			09/18/23 12:26	1
Xylenes, Total	ND		2.0		ug/L			09/18/23 12:26	1
m,p-Xylene	ND		2.0		ug/L			09/18/23 12:26	1
o-Xylene	ND		1.0		ug/L			09/18/23 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/18/23 12:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/18/23 12:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*09/18/23 12:26*	*1*

Lab Sample ID: LCS 480-683828/6
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	80 - 120
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	26.1		ug/L		104	76 - 122
1,1-Dichloroethane	25.0	27.7		ug/L		111	77 - 120
1,1-Dichloroethene	25.0	28.9		ug/L		116	66 - 127
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.9		ug/L		112	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	27.2		ug/L		109	76 - 120
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 120
2-Butanone (MEK)	125	240	*+	ug/L		192	57 - 140

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-683828/6
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	125	135		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	133		ug/L		106	71 - 125
Acetone	125	133		ug/L		106	56 - 142
Acrylonitrile	250	274		ug/L		110	63 - 125
Benzene	25.0	26.7		ug/L		107	71 - 124
Chlorobromomethane	25.0	25.2		ug/L		101	72 - 130
Bromodichloromethane	25.0	27.5		ug/L		110	80 - 122
Bromoform	25.0	31.5		ug/L		126	61 - 132
Bromomethane	25.0	24.3		ug/L		97	55 - 144
Carbon disulfide	25.0	29.1		ug/L		116	59 - 134
Carbon tetrachloride	25.0	28.7		ug/L		115	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	29.0		ug/L		116	75 - 125
Chloroethane	25.0	23.6		ug/L		94	69 - 136
Chloroform	25.0	24.1		ug/L		96	73 - 127
Chloromethane	25.0	22.0		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	29.6		ug/L		118	74 - 124
Dibromomethane	25.0	25.3		ug/L		101	76 - 127
Ethylbenzene	25.0	26.8		ug/L		107	77 - 123
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120
Iodomethane	25.0	26.9		ug/L		108	78 - 123
Methylene Chloride	25.0	26.6		ug/L		106	75 - 124
Styrene	25.0	26.7		ug/L		107	80 - 120
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122
Trichlorofluoromethane	25.0	26.4		ug/L		106	62 - 150
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Toluene	25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	29.1		ug/L		117	80 - 120
trans-1,4-Dichloro-2-butene	25.0	27.5		ug/L		110	41 - 131
Vinyl acetate	50.0	87.3	*+	ug/L		175	50 - 144
Vinyl chloride	25.0	24.5		ug/L		98	65 - 133
m,p-Xylene	25.0	26.0		ug/L		104	76 - 122
o-Xylene	25.0	26.1		ug/L		104	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Lab Sample ID: LCSD 480-683828/28
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/L		108	80 - 120	1	20
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	73 - 126	1	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-683828/28
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		107	76 - 120	0	15
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122	3	15
1,1-Dichloroethane	25.0	27.2		ug/L		109	77 - 120	2	20
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127	1	16
1,2,3-Trichloropropane	25.0	26.0		ug/L		104	68 - 122	1	14
1,2-Dibromo-3-Chloropropane	25.0	27.9		ug/L		112	56 - 134	0	15
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124	1	20
1,2-Dichloroethane	25.0	23.9		ug/L		95	75 - 120	1	20
1,2-Dichloropropane	25.0	26.5		ug/L		106	76 - 120	2	20
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 120	0	20
2-Butanone (MEK)	125	232	*+	ug/L		186	57 - 140	3	20
2-Hexanone	125	129		ug/L		103	65 - 127	4	15
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	71 - 125	2	35
Acetone	125	128		ug/L		102	56 - 142	4	15
Acrylonitrile	250	268		ug/L		107	63 - 125	2	20
Benzene	25.0	26.4		ug/L		105	71 - 124	1	13
Chlorobromomethane	25.0	24.7		ug/L		99	72 - 130	2	15
Bromodichloromethane	25.0	26.9		ug/L		107	80 - 122	2	15
Bromoform	25.0	30.3		ug/L		121	61 - 132	4	15
Bromomethane	25.0	22.6		ug/L		90	55 - 144	7	15
Carbon disulfide	25.0	29.3		ug/L		117	59 - 134	1	15
Carbon tetrachloride	25.0	28.8		ug/L		115	72 - 134	0	15
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120	1	25
Dibromochloromethane	25.0	28.4		ug/L		114	75 - 125	2	15
Chloroethane	25.0	23.2		ug/L		93	69 - 136	2	15
Chloroform	25.0	24.2		ug/L		97	73 - 127	0	20
Chloromethane	25.0	21.1		ug/L		84	68 - 124	4	15
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	74 - 124	1	15
cis-1,3-Dichloropropene	25.0	28.9		ug/L		116	74 - 124	2	15
Dibromomethane	25.0	25.0		ug/L		100	76 - 127	1	15
Ethylbenzene	25.0	26.4		ug/L		106	77 - 123	2	15
1,2-Dibromoethane	25.0	25.9		ug/L		103	77 - 120	4	15
Iodomethane	25.0	26.3		ug/L		105	78 - 123	2	20
Methylene Chloride	25.0	26.1		ug/L		105	75 - 124	2	15
Styrene	25.0	25.8		ug/L		103	80 - 120	4	20
Tetrachloroethene	25.0	26.3		ug/L		105	74 - 122	2	20
Trichlorofluoromethane	25.0	25.7		ug/L		103	62 - 150	3	20
Trichloroethene	25.0	26.1		ug/L		104	74 - 123	2	16
Toluene	25.0	25.5		ug/L		102	80 - 122	2	15
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	73 - 127	0	20
trans-1,3-Dichloropropene	25.0	28.3		ug/L		113	80 - 120	3	15
trans-1,4-Dichloro-2-butene	25.0	27.6		ug/L		110	41 - 131	0	20
Vinyl acetate	50.0	84.8	*+	ug/L		170	50 - 144	3	23
Vinyl chloride	25.0	23.9		ug/L		96	65 - 133	2	15
m,p-Xylene	25.0	25.7		ug/L		103	76 - 122	1	16
o-Xylene	25.0	25.8		ug/L		103	76 - 122	1	16

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-683828/28
Matrix: Water
Analysis Batch: 683828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-683550/1-A
Matrix: Water
Analysis Batch: 683998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		09/15/23 08:21	09/18/23 15:45	1
Antimony	ND		0.020		mg/L		09/15/23 08:21	09/18/23 15:45	1
Arsenic	ND		0.015		mg/L		09/15/23 08:21	09/18/23 15:45	1
Barium	ND		0.0020		mg/L		09/15/23 08:21	09/18/23 15:45	1
Beryllium	ND		0.0020		mg/L		09/15/23 08:21	09/18/23 15:45	1
Boron	ND		0.020		mg/L		09/15/23 08:21	09/18/23 15:45	1
Cadmium	ND		0.0020		mg/L		09/15/23 08:21	09/18/23 15:45	1
Calcium	ND		0.50		mg/L		09/15/23 08:21	09/18/23 15:45	1
Chromium	ND		0.0040		mg/L		09/15/23 08:21	09/18/23 15:45	1
Cobalt	ND		0.0040		mg/L		09/15/23 08:21	09/18/23 15:45	1
Copper	ND		0.010		mg/L		09/15/23 08:21	09/18/23 15:45	1
Iron	ND		0.050		mg/L		09/15/23 08:21	09/18/23 15:45	1
Lead	ND		0.010		mg/L		09/15/23 08:21	09/18/23 15:45	1
Magnesium	ND		0.20		mg/L		09/15/23 08:21	09/18/23 15:45	1
Manganese	ND		0.0030		mg/L		09/15/23 08:21	09/18/23 15:45	1
Nickel	ND		0.010		mg/L		09/15/23 08:21	09/18/23 15:45	1
Potassium	ND		0.50		mg/L		09/15/23 08:21	09/18/23 15:45	1
Selenium	ND		0.025		mg/L		09/15/23 08:21	09/18/23 15:45	1
Silver	ND		0.0060		mg/L		09/15/23 08:21	09/18/23 15:45	1
Sodium	ND		1.0		mg/L		09/15/23 08:21	09/18/23 15:45	1
Thallium	ND		0.020		mg/L		09/15/23 08:21	09/18/23 15:45	1
Vanadium	ND		0.0050		mg/L		09/15/23 08:21	09/18/23 15:45	1
Zinc	ND		0.010		mg/L		09/15/23 08:21	09/18/23 15:45	1

Lab Sample ID: LCS 480-683550/2-A
Matrix: Water
Analysis Batch: 683998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	10.41		mg/L		104	80 - 120
Antimony	0.200	0.239		mg/L		119	80 - 120
Arsenic	0.200	0.216		mg/L		108	80 - 120
Barium	0.200	0.217		mg/L		109	80 - 120
Beryllium	0.200	0.210		mg/L		105	80 - 120
Boron	0.201	0.212		mg/L		106	80 - 120
Cadmium	0.200	0.213		mg/L		107	80 - 120
Calcium	10.0	10.44		mg/L		104	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-683550/2-A
Matrix: Water
Analysis Batch: 683998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.200	0.218		mg/L		109	80 - 120
Copper	0.201	0.208		mg/L		104	80 - 120
Iron	10.0	10.37		mg/L		104	80 - 120
Lead	0.200	0.216		mg/L		108	80 - 120
Magnesium	10.0	10.38		mg/L		104	80 - 120
Manganese	0.200	0.222		mg/L		111	80 - 120
Nickel	0.200	0.213		mg/L		106	80 - 120
Potassium	10.0	10.63		mg/L		106	80 - 120
Selenium	0.200	0.208		mg/L		104	80 - 120
Silver	0.0500	0.0495		mg/L		99	80 - 120
Sodium	10.0	10.56		mg/L		105	80 - 120
Thallium	0.200	0.219		mg/L		109	80 - 120
Vanadium	0.200	0.210		mg/L		105	80 - 120
Zinc	0.200	0.217		mg/L		108	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-683599/1-A
Matrix: Water
Analysis Batch: 683719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 13:39	1

Lab Sample ID: LCS 480-683599/2-A
Matrix: Water
Analysis Batch: 683719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00694		mg/L		104	80 - 120

Lab Sample ID: MB 480-683602/1-A
Matrix: Water
Analysis Batch: 683719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/15/23 10:52	09/15/23 14:16	1

Lab Sample ID: LCS 480-683602/2-A
Matrix: Water
Analysis Batch: 683719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00676		mg/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-683703/4
Matrix: Water
Analysis Batch: 683703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/23 21:20	1

Lab Sample ID: LCS 480-683703/5
Matrix: Water
Analysis Batch: 683703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.01	4.96		mg/L		99	90 - 110

Lab Sample ID: 480-212651-4 MS
Matrix: Water
Analysis Batch: 683703

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	ND		5.01	4.81		mg/L		96	80 - 120

Lab Sample ID: 480-212651-4 MSD
Matrix: Water
Analysis Batch: 683703

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	ND		5.01	4.87		mg/L		97	80 - 120	1	15

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-685080/130
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/25/23 18:35	1

Lab Sample ID: MB 480-685080/149
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/25/23 18:49	1

Lab Sample ID: MB 480-685080/51
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/25/23 16:56	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-685080/79
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/25/23 17:42	1

Lab Sample ID: MB 480-685080/87
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/25/23 17:51	1

Lab Sample ID: LCS 480-685080/131
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	45.68		mg/L		91	90 - 110

Lab Sample ID: LCS 480-685080/150
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	48.82		mg/L		98	90 - 110

Lab Sample ID: LCS 480-685080/52
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	47.25		mg/L		94	90 - 110

Lab Sample ID: LCS 480-685080/80
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	47.72		mg/L		95	90 - 110

Lab Sample ID: LCS 480-685080/88
Matrix: Water
Analysis Batch: 685080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	45.93		mg/L		92	90 - 110

Lab Sample ID: 480-212651-3 MS
Matrix: Water
Analysis Batch: 685080

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	126		20.0	163.1	4	mg/L		183	60 - 140

Method: 310.2 - Alkalinity

Lab Sample ID: 480-212651-3 MSD
Matrix: Water
Analysis Batch: 685080

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total	126		20.0	158.8	4	mg/L		162	60 - 140	3	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-683972/21
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/18/23 12:24	1

Lab Sample ID: MB 480-683972/215
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/18/23 21:01	1

Lab Sample ID: MB 480-683972/75
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/18/23 14:48	1

Lab Sample ID: HLCS 480-683972/22
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.379		mg/L		95	90 - 110

Lab Sample ID: LCS 480-683972/23
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.227		mg/L		91	90 - 110

Lab Sample ID: LCS 480-683972/76
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.232		mg/L		93	90 - 110

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCSD 480-683972/217
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			0.250	0.230		mg/L		92	90 - 110	1	15

Lab Sample ID: LCSD 480-683972/25
Matrix: Water
Analysis Batch: 683972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			0.250	0.236		mg/L		95	90 - 110	4	15

Lab Sample ID: 480-212651-1 MS
Matrix: Water
Analysis Batch: 683972

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.010	F1	0.100	0.0888	F1	mg/L		79	90 - 110		

Lab Sample ID: MB 480-684264/47
Matrix: Water
Analysis Batch: 684264

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L			09/20/23 10:31	1

Lab Sample ID: HLCS 480-684264/22
Matrix: Water
Analysis Batch: 684264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.410		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-684264/23
Matrix: Water
Analysis Batch: 684264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.261		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-684264/48
Matrix: Water
Analysis Batch: 684264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.247		mg/L		99	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-683645/27
Matrix: Water
Analysis Batch: 683645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/15/23 08:41	1

Lab Sample ID: MB 480-683645/3
Matrix: Water
Analysis Batch: 683645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/15/23 08:15	1

Lab Sample ID: MB 480-683645/75
Matrix: Water
Analysis Batch: 683645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/15/23 09:34	1

Lab Sample ID: LCS 480-683645/28
Matrix: Water
Analysis Batch: 683645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.995		mg/L		100	90 - 110

Lab Sample ID: LCS 480-683645/4
Matrix: Water
Analysis Batch: 683645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

Lab Sample ID: LCS 480-683645/76
Matrix: Water
Analysis Batch: 683645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.998		mg/L		100	90 - 110

Lab Sample ID: 480-212651-3 MS
Matrix: Water
Analysis Batch: 683645

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.065		0.200	0.257		mg/L		96	90 - 110

Lab Sample ID: 480-212651-3 DU
Matrix: Water
Analysis Batch: 683645

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.065		0.0614		mg/L		6	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-683576/1-A
Matrix: Water
Analysis Batch: 683646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/14/23 16:00	09/15/23 06:24	1

Lab Sample ID: LCS 480-683576/2-A
Matrix: Water
Analysis Batch: 683646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.37		mg/L		95	90 - 110

Lab Sample ID: 480-212651-11 MS
Matrix: Water
Analysis Batch: 683646

Client Sample ID: DUP
Prep Type: Total/NA
Prep Batch: 683576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	0.84		1.00	1.76		mg/L		91	90 - 110

Lab Sample ID: MB 480-683963/1-A
Matrix: Water
Analysis Batch: 684066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/18/23 17:00	09/19/23 06:17	1

Lab Sample ID: LCS 480-683963/2-A
Matrix: Water
Analysis Batch: 684066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.61		mg/L		105	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-684651/27
Matrix: Water
Analysis Batch: 684651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/22/23 13:48	1

Lab Sample ID: MB 480-684651/3
Matrix: Water
Analysis Batch: 684651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/22/23 13:48	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-684651/28
Matrix: Water
Analysis Batch: 684651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	25.0	26.95		mg/L		108	90 - 110

Lab Sample ID: LCS 480-684651/4
Matrix: Water
Analysis Batch: 684651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	25.0	26.27		mg/L		105	90 - 110

Lab Sample ID: 480-212651-5 MS
Matrix: Water
Analysis Batch: 684651

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	ND	F1	50.0	64.17	F1	mg/L		128	75 - 125

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-683659/106
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/14/23 23:53	1

Lab Sample ID: MB 480-683659/136
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/15/23 01:43	1

Lab Sample ID: LCS 480-683659/107
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0993		mg/L		99	90 - 110

Lab Sample ID: LCS 480-683659/137
Matrix: Water
Analysis Batch: 683659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0984		mg/L		98	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 480-212651-7 MS
Matrix: Water
Analysis Batch: 683659

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	ND	F1	0.100	0.111	F1	mg/L		111	90 - 110

Lab Sample ID: 480-212651-6 DU
Matrix: Water
Analysis Batch: 683659

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phenolics, Total Recoverable	ND		ND		mg/L		NC	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-683492/3
Matrix: Water
Analysis Batch: 683492

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			09/14/23 11:05	1

Lab Sample ID: LCS 480-683492/4
Matrix: Water
Analysis Batch: 683492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.0500	0.0522		mg/L		104	85 - 115

Lab Sample ID: 480-212651-2 MS
Matrix: Water
Analysis Batch: 683492

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.0500	0.0560		mg/L		112	85 - 115

Lab Sample ID: 480-212651-8 MS
Matrix: Water
Analysis Batch: 683492

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.0500	0.0522		mg/L		104	85 - 115

Lab Sample ID: 480-212651-1 DU
Matrix: Water
Analysis Batch: 683492

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND	H	ND		mg/L		NC	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-212651-7 DU
Matrix: Water
Analysis Batch: 683492

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-684115/140
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 15:42	1

Lab Sample ID: MB 480-684115/147
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 15:52	1

Lab Sample ID: MB 480-684115/151
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 15:53	1

Lab Sample ID: MB 480-684115/161
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 16:00	1

Lab Sample ID: MB 480-684115/169
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 16:03	1

Lab Sample ID: MB 480-684115/177
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 16:06	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: MB 480-684115/185
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/19/23 16:08	1

Lab Sample ID: LCS 480-684115/144
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.64		mg/L		109	90 - 110

Lab Sample ID: LCS 480-684115/168
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.33		mg/L		108	90 - 110

Lab Sample ID: LCS 480-684115/176
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.78		mg/L		109	90 - 110

Lab Sample ID: LCS 480-684115/184
Matrix: Water
Analysis Batch: 684115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	32.43		mg/L		108	90 - 110

Lab Sample ID: MB 480-684451/18
Matrix: Water
Analysis Batch: 684451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/21/23 09:55	1

Lab Sample ID: MB 480-684451/47
Matrix: Water
Analysis Batch: 684451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/21/23 10:10	1

Lab Sample ID: MB 480-684451/51
Matrix: Water
Analysis Batch: 684451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/21/23 10:14	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-684451/22
Matrix: Water
Analysis Batch: 684451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	31.02		mg/L		103	90 - 110

Lab Sample ID: LCS 480-684451/50
Matrix: Water
Analysis Batch: 684451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	30.67		mg/L		102	90 - 110

Lab Sample ID: 480-212651-9 MS
Matrix: Water
Analysis Batch: 684451

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND	F2 F1	20.0	33.26	F1	mg/L		166	60 - 128

Lab Sample ID: 480-212651-9 MSD
Matrix: Water
Analysis Batch: 684451

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND	F2 F1	20.0	23.83	F2	mg/L		119	60 - 128	33	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-683670/3
Matrix: Water
Analysis Batch: 683670

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			09/15/23 10:14	1

Lab Sample ID: LCS 480-683670/4
Matrix: Water
Analysis Batch: 683670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Color	30.0	30.00		Color Units		100	90 - 110

Lab Sample ID: 480-212651-9 DU
Matrix: Water
Analysis Batch: 683670

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color	15.0		15.00		Color Units		0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-683891/1
Matrix: Water
Analysis Batch: 683891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			09/18/23 10:59	1

Lab Sample ID: LCS 480-683891/2
Matrix: Water
Analysis Batch: 683891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			536	489.0		mg/L		91	85 - 115		

Lab Sample ID: MB 480-683904/1
Matrix: Water
Analysis Batch: 683904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			09/18/23 11:32	1

Lab Sample ID: LCS 480-683904/2
Matrix: Water
Analysis Batch: 683904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			536	502.0		mg/L		94	85 - 115		

Lab Sample ID: 480-212651-9 DU
Matrix: Water
Analysis Batch: 683904

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	464			461.0		mg/L				0.6	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-684305/112
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:35	1

Lab Sample ID: MB 480-684305/128
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:41	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MB 480-684305/132
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:42	1

Lab Sample ID: MB 480-684305/89
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:23	1

Lab Sample ID: MB 480-684305/96
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/20/23 11:27	1

Lab Sample ID: LCS 480-684305/111
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.82		mg/L		107	90 - 110

Lab Sample ID: LCS 480-684305/131
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.43		mg/L		106	90 - 110

Lab Sample ID: LCS 480-684305/95
Matrix: Water
Analysis Batch: 684305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.31		mg/L		105	90 - 110

Lab Sample ID: 480-212651-1 MS
Matrix: Water
Analysis Batch: 684305

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.1		20.0	23.91		mg/L		114	74 - 131

Lab Sample ID: 480-212651-1 MSD
Matrix: Water
Analysis Batch: 684305

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.1		20.0	24.19		mg/L		115	74 - 131	1	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 480-212651-10 MS
Matrix: Water
Analysis Batch: 684305

Client Sample ID: MW-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	29.3		20.0	47.56		mg/L		91	74 - 131

Lab Sample ID: 480-212651-10 MSD
Matrix: Water
Analysis Batch: 684305

Client Sample ID: MW-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.3		20.0	47.20		mg/L		89	74 - 131	1	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-683566/1
Matrix: Water
Analysis Batch: 683566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			09/14/23 10:52	1

Lab Sample ID: LCS 480-683566/2
Matrix: Water
Analysis Batch: 683566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	200	177.5		mg/L		89	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-683825/28
Matrix: Water
Analysis Batch: 683825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			09/16/23 02:35	1
TOC Result 2	ND		1.0		mg/L			09/16/23 02:35	1

Lab Sample ID: MB 480-683825/4
Matrix: Water
Analysis Batch: 683825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			09/15/23 14:45	1
TOC Result 2	ND		1.0		mg/L			09/15/23 14:45	1

Lab Sample ID: MB 480-683825/52
Matrix: Water
Analysis Batch: 683825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			09/16/23 14:22	1
TOC Result 2	ND		1.0		mg/L			09/16/23 14:22	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-683825/29
Matrix: Water
Analysis Batch: 683825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	60.0	59.70		mg/L		99	90 - 110
TOC Result 2	60.0	61.32		mg/L		102	90 - 110

Lab Sample ID: LCS 480-683825/5
Matrix: Water
Analysis Batch: 683825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	60.0	60.08		mg/L		100	90 - 110
TOC Result 2	60.0	62.21		mg/L		104	90 - 110

Lab Sample ID: LCS 480-683825/53
Matrix: Water
Analysis Batch: 683825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	60.0	60.94		mg/L		102	90 - 110
TOC Result 2	60.0	62.90		mg/L		105	90 - 110

Lab Sample ID: 480-212651-3 MS
Matrix: Water
Analysis Batch: 683825

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	ND		23.3	22.85		mg/L		98	54 - 131
TOC Result 2	ND		23.3	23.45		mg/L		101	54 - 131

Lab Sample ID: 480-212651-5 MS
Matrix: Water
Analysis Batch: 683825

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	4.3		23.3	27.27		mg/L		99	54 - 131
TOC Result 2	4.5		23.3	27.83		mg/L		100	54 - 131

Lab Sample ID: 480-212651-8 MS
Matrix: Water
Analysis Batch: 683825

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	ND		23.3	22.52		mg/L		97	54 - 131
TOC Result 2	ND		23.3	22.94		mg/L		98	54 - 131

Lab Sample ID: 480-212651-1 DU
Matrix: Water
Analysis Batch: 683825

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	ND		ND		mg/L		NC	20
TOC Result 2	ND		ND		mg/L		NC	20

Method: SM 5310C - TOC

Lab Sample ID: 480-212651-4 DU
Matrix: Water
Analysis Batch: 683825

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
TOC Result 1	ND			ND		mg/L				NC	20
TOC Result 2	ND			ND		mg/L				NC	20

Lab Sample ID: 480-212651-6 DU
Matrix: Water
Analysis Batch: 683825

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
TOC Result 1	3.7			3.45		mg/L				7	20
TOC Result 2	3.6			3.57		mg/L				1	20

Lab Sample ID: 480-212651-9 DU
Matrix: Water
Analysis Batch: 683825

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
TOC Result 1	1.4			1.62		mg/L				13	20
TOC Result 2	1.6			1.45		mg/L				8	20

GC/MS VOA

Analysis Batch: 683686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	8260C	
480-212651-2	CD-1RA	Total/NA	Water	8260C	
480-212651-3	MW-1A	Total/NA	Water	8260C	
480-212651-4	MW-1B	Total/NA	Water	8260C	
480-212651-5	MW-2A	Total/NA	Water	8260C	
480-212651-6	MW-2B	Total/NA	Water	8260C	
480-212651-7	MW-3A	Total/NA	Water	8260C	
480-212651-8	MW-3B	Total/NA	Water	8260C	
480-212651-9	MW-4A	Total/NA	Water	8260C	
480-212651-10	MW-7A	Total/NA	Water	8260C	
MB 480-683686/8	Method Blank	Total/NA	Water	8260C	
LCS 480-683686/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 683828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-11	DUP	Total/NA	Water	8260C	
MB 480-683828/8	Method Blank	Total/NA	Water	8260C	
LCS 480-683828/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-683828/28	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 683550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	3005A	
480-212651-2	CD-1RA	Total/NA	Water	3005A	
480-212651-3	MW-1A	Total/NA	Water	3005A	
480-212651-4	MW-1B	Total/NA	Water	3005A	
480-212651-5	MW-2A	Total/NA	Water	3005A	
480-212651-6	MW-2B	Total/NA	Water	3005A	
480-212651-7	MW-3A	Total/NA	Water	3005A	
480-212651-8	MW-3B	Total/NA	Water	3005A	
480-212651-9	MW-4A	Total/NA	Water	3005A	
480-212651-10	MW-7A	Total/NA	Water	3005A	
480-212651-11	DUP	Total/NA	Water	3005A	
MB 480-683550/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-683550/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 683599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	7470A	
MB 480-683599/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-683599/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 683602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-2	CD-1RA	Total/NA	Water	7470A	
480-212651-3	MW-1A	Total/NA	Water	7470A	
480-212651-4	MW-1B	Total/NA	Water	7470A	
480-212651-5	MW-2A	Total/NA	Water	7470A	
480-212651-6	MW-2B	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 683602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-7	MW-3A	Total/NA	Water	7470A	
480-212651-8	MW-3B	Total/NA	Water	7470A	
480-212651-9	MW-4A	Total/NA	Water	7470A	
480-212651-10	MW-7A	Total/NA	Water	7470A	
480-212651-11	DUP	Total/NA	Water	7470A	
MB 480-683602/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-683602/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 683719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	7470A	683599
480-212651-2	CD-1RA	Total/NA	Water	7470A	683602
480-212651-3	MW-1A	Total/NA	Water	7470A	683602
480-212651-4	MW-1B	Total/NA	Water	7470A	683602
480-212651-5	MW-2A	Total/NA	Water	7470A	683602
480-212651-6	MW-2B	Total/NA	Water	7470A	683602
480-212651-7	MW-3A	Total/NA	Water	7470A	683602
480-212651-8	MW-3B	Total/NA	Water	7470A	683602
480-212651-9	MW-4A	Total/NA	Water	7470A	683602
480-212651-10	MW-7A	Total/NA	Water	7470A	683602
480-212651-11	DUP	Total/NA	Water	7470A	683602
MB 480-683599/1-A	Method Blank	Total/NA	Water	7470A	683599
MB 480-683602/1-A	Method Blank	Total/NA	Water	7470A	683602
LCS 480-683599/2-A	Lab Control Sample	Total/NA	Water	7470A	683599
LCS 480-683602/2-A	Lab Control Sample	Total/NA	Water	7470A	683602

Analysis Batch: 683998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-683550/1-A	Method Blank	Total/NA	Water	6010C	683550
LCS 480-683550/2-A	Lab Control Sample	Total/NA	Water	6010C	683550

Analysis Batch: 684378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	6010C	683550
480-212651-2	CD-1RA	Total/NA	Water	6010C	683550
480-212651-3	MW-1A	Total/NA	Water	6010C	683550
480-212651-4	MW-1B	Total/NA	Water	6010C	683550
480-212651-5	MW-2A	Total/NA	Water	6010C	683550
480-212651-6	MW-2B	Total/NA	Water	6010C	683550
480-212651-7	MW-3A	Total/NA	Water	6010C	683550
480-212651-8	MW-3B	Total/NA	Water	6010C	683550
480-212651-9	MW-4A	Total/NA	Water	6010C	683550
480-212651-10	MW-7A	Total/NA	Water	6010C	683550
480-212651-11	DUP	Total/NA	Water	6010C	683550

Analysis Batch: 684567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	6010C	683550
480-212651-2	CD-1RA	Total/NA	Water	6010C	683550
480-212651-3	MW-1A	Total/NA	Water	6010C	683550
480-212651-4	MW-1B	Total/NA	Water	6010C	683550

Metals (Continued)

Analysis Batch: 684567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-5	MW-2A	Total/NA	Water	6010C	683550
480-212651-6	MW-2B	Total/NA	Water	6010C	683550
480-212651-7	MW-3A	Total/NA	Water	6010C	683550
480-212651-8	MW-3B	Total/NA	Water	6010C	683550
480-212651-9	MW-4A	Total/NA	Water	6010C	683550
480-212651-10	MW-7A	Total/NA	Water	6010C	683550
480-212651-11	DUP	Total/NA	Water	6010C	683550

Analysis Batch: 684641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	SM 2340B	
480-212651-2	CD-1RA	Total/NA	Water	SM 2340B	
480-212651-3	MW-1A	Total/NA	Water	SM 2340B	
480-212651-4	MW-1B	Total/NA	Water	SM 2340B	
480-212651-5	MW-2A	Total/NA	Water	SM 2340B	
480-212651-6	MW-2B	Total/NA	Water	SM 2340B	
480-212651-7	MW-3A	Total/NA	Water	SM 2340B	
480-212651-8	MW-3B	Total/NA	Water	SM 2340B	
480-212651-9	MW-4A	Total/NA	Water	SM 2340B	
480-212651-10	MW-7A	Total/NA	Water	SM 2340B	
480-212651-11	DUP	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 683492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	7196A	
480-212651-2	CD-1RA	Total/NA	Water	7196A	
480-212651-3	MW-1A	Total/NA	Water	7196A	
480-212651-4	MW-1B	Total/NA	Water	7196A	
480-212651-5	MW-2A	Total/NA	Water	7196A	
480-212651-6	MW-2B	Total/NA	Water	7196A	
480-212651-7	MW-3A	Total/NA	Water	7196A	
480-212651-8	MW-3B	Total/NA	Water	7196A	
480-212651-9	MW-4A	Total/NA	Water	7196A	
480-212651-10	MW-7A	Total/NA	Water	7196A	
480-212651-11	DUP	Total/NA	Water	7196A	
MB 480-683492/3	Method Blank	Total/NA	Water	7196A	
LCS 480-683492/4	Lab Control Sample	Total/NA	Water	7196A	
480-212651-2 MS	CD-1RA	Total/NA	Water	7196A	
480-212651-8 MS	MW-3B	Total/NA	Water	7196A	
480-212651-1 DU	CD-1	Total/NA	Water	7196A	
480-212651-7 DU	MW-3A	Total/NA	Water	7196A	

Analysis Batch: 683566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	SM 5210B	
480-212651-2	CD-1RA	Total/NA	Water	SM 5210B	
480-212651-3	MW-1A	Total/NA	Water	SM 5210B	
480-212651-4	MW-1B	Total/NA	Water	SM 5210B	
480-212651-5	MW-2A	Total/NA	Water	SM 5210B	

General Chemistry (Continued)

Analysis Batch: 683566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-6	MW-2B	Total/NA	Water	SM 5210B	
480-212651-7	MW-3A	Total/NA	Water	SM 5210B	
480-212651-8	MW-3B	Total/NA	Water	SM 5210B	
480-212651-9	MW-4A	Total/NA	Water	SM 5210B	
480-212651-10	MW-7A	Total/NA	Water	SM 5210B	
480-212651-11	DUP	Total/NA	Water	SM 5210B	
USB 480-683566/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-683566/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Prep Batch: 683576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	351.2	
480-212651-2	CD-1RA	Total/NA	Water	351.2	
480-212651-3	MW-1A	Total/NA	Water	351.2	
480-212651-4	MW-1B	Total/NA	Water	351.2	
480-212651-6	MW-2B	Total/NA	Water	351.2	
480-212651-7	MW-3A	Total/NA	Water	351.2	
480-212651-8	MW-3B	Total/NA	Water	351.2	
480-212651-9	MW-4A	Total/NA	Water	351.2	
480-212651-10	MW-7A	Total/NA	Water	351.2	
480-212651-11	DUP	Total/NA	Water	351.2	
MB 480-683576/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-683576/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-212651-11 MS	DUP	Total/NA	Water	351.2	

Analysis Batch: 683580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	353.2	
480-212651-2	CD-1RA	Total/NA	Water	353.2	
480-212651-3	MW-1A	Total/NA	Water	353.2	
480-212651-4	MW-1B	Total/NA	Water	353.2	
480-212651-5	MW-2A	Total/NA	Water	353.2	
480-212651-6	MW-2B	Total/NA	Water	353.2	
480-212651-7	MW-3A	Total/NA	Water	353.2	
480-212651-8	MW-3B	Total/NA	Water	353.2	
480-212651-9	MW-4A	Total/NA	Water	353.2	
480-212651-10	MW-7A	Total/NA	Water	353.2	
480-212651-11	DUP	Total/NA	Water	353.2	

Analysis Batch: 683645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	350.1	
480-212651-2	CD-1RA	Total/NA	Water	350.1	
480-212651-3	MW-1A	Total/NA	Water	350.1	
480-212651-4	MW-1B	Total/NA	Water	350.1	
480-212651-5	MW-2A	Total/NA	Water	350.1	
480-212651-6	MW-2B	Total/NA	Water	350.1	
480-212651-7	MW-3A	Total/NA	Water	350.1	
480-212651-8	MW-3B	Total/NA	Water	350.1	
480-212651-9	MW-4A	Total/NA	Water	350.1	
480-212651-10	MW-7A	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 683645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-11	DUP	Total/NA	Water	350.1	
MB 480-683645/27	Method Blank	Total/NA	Water	350.1	
MB 480-683645/3	Method Blank	Total/NA	Water	350.1	
MB 480-683645/75	Method Blank	Total/NA	Water	350.1	
LCS 480-683645/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-683645/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-683645/76	Lab Control Sample	Total/NA	Water	350.1	
480-212651-3 MS	MW-1A	Total/NA	Water	350.1	
480-212651-3 DU	MW-1A	Total/NA	Water	350.1	

Analysis Batch: 683646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	351.2	683576
480-212651-2	CD-1RA	Total/NA	Water	351.2	683576
480-212651-3	MW-1A	Total/NA	Water	351.2	683576
480-212651-4	MW-1B	Total/NA	Water	351.2	683576
480-212651-6	MW-2B	Total/NA	Water	351.2	683576
480-212651-7	MW-3A	Total/NA	Water	351.2	683576
480-212651-8	MW-3B	Total/NA	Water	351.2	683576
480-212651-9	MW-4A	Total/NA	Water	351.2	683576
480-212651-10	MW-7A	Total/NA	Water	351.2	683576
480-212651-11	DUP	Total/NA	Water	351.2	683576
MB 480-683576/1-A	Method Blank	Total/NA	Water	351.2	683576
LCS 480-683576/2-A	Lab Control Sample	Total/NA	Water	351.2	683576
480-212651-11 MS	DUP	Total/NA	Water	351.2	683576

Analysis Batch: 683659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	420.4	
480-212651-2	CD-1RA	Total/NA	Water	420.4	
480-212651-3	MW-1A	Total/NA	Water	420.4	
480-212651-4	MW-1B	Total/NA	Water	420.4	
480-212651-5	MW-2A	Total/NA	Water	420.4	
480-212651-6	MW-2B	Total/NA	Water	420.4	
480-212651-7	MW-3A	Total/NA	Water	420.4	
480-212651-8	MW-3B	Total/NA	Water	420.4	
480-212651-9	MW-4A	Total/NA	Water	420.4	
480-212651-10	MW-7A	Total/NA	Water	420.4	
480-212651-11	DUP	Total/NA	Water	420.4	
MB 480-683659/106	Method Blank	Total/NA	Water	420.4	
MB 480-683659/136	Method Blank	Total/NA	Water	420.4	
LCS 480-683659/107	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-683659/137	Lab Control Sample	Total/NA	Water	420.4	
480-212651-7 MS	MW-3A	Total/NA	Water	420.4	
480-212651-6 DU	MW-2B	Total/NA	Water	420.4	

Analysis Batch: 683670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	SM 2120B	
480-212651-2	CD-1RA	Total/NA	Water	SM 2120B	
480-212651-3	MW-1A	Total/NA	Water	SM 2120B	

General Chemistry (Continued)

Analysis Batch: 683670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-4	MW-1B	Total/NA	Water	SM 2120B	
480-212651-5	MW-2A	Total/NA	Water	SM 2120B	
480-212651-6	MW-2B	Total/NA	Water	SM 2120B	
480-212651-7	MW-3A	Total/NA	Water	SM 2120B	
480-212651-8	MW-3B	Total/NA	Water	SM 2120B	
480-212651-9	MW-4A	Total/NA	Water	SM 2120B	
480-212651-10	MW-7A	Total/NA	Water	SM 2120B	
480-212651-11	DUP	Total/NA	Water	SM 2120B	
MB 480-683670/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-683670/4	Lab Control Sample	Total/NA	Water	SM 2120B	
480-212651-9 DU	MW-4A	Total/NA	Water	SM 2120B	

Analysis Batch: 683703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	300.0	
480-212651-2	CD-1RA	Total/NA	Water	300.0	
480-212651-3	MW-1A	Total/NA	Water	300.0	
480-212651-4	MW-1B	Total/NA	Water	300.0	
480-212651-5	MW-2A	Total/NA	Water	300.0	
480-212651-6	MW-2B	Total/NA	Water	300.0	
480-212651-7	MW-3A	Total/NA	Water	300.0	
480-212651-8	MW-3B	Total/NA	Water	300.0	
480-212651-9	MW-4A	Total/NA	Water	300.0	
480-212651-10	MW-7A	Total/NA	Water	300.0	
480-212651-11	DUP	Total/NA	Water	300.0	
MB 480-683703/4	Method Blank	Total/NA	Water	300.0	
LCS 480-683703/5	Lab Control Sample	Total/NA	Water	300.0	
480-212651-4 MS	MW-1B	Total/NA	Water	300.0	
480-212651-4 MSD	MW-1B	Total/NA	Water	300.0	

Analysis Batch: 683825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	SM 5310C	
480-212651-2	CD-1RA	Total/NA	Water	SM 5310C	
480-212651-3	MW-1A	Total/NA	Water	SM 5310C	
480-212651-4	MW-1B	Total/NA	Water	SM 5310C	
480-212651-5	MW-2A	Total/NA	Water	SM 5310C	
480-212651-6	MW-2B	Total/NA	Water	SM 5310C	
480-212651-7	MW-3A	Total/NA	Water	SM 5310C	
480-212651-8	MW-3B	Total/NA	Water	SM 5310C	
480-212651-9	MW-4A	Total/NA	Water	SM 5310C	
480-212651-10	MW-7A	Total/NA	Water	SM 5310C	
480-212651-11	DUP	Total/NA	Water	SM 5310C	
MB 480-683825/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-683825/4	Method Blank	Total/NA	Water	SM 5310C	
MB 480-683825/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-683825/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-683825/5	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-683825/53	Lab Control Sample	Total/NA	Water	SM 5310C	
480-212651-3 MS	MW-1A	Total/NA	Water	SM 5310C	
480-212651-5 MS	MW-2A	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 683825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-8 MS	MW-3B	Total/NA	Water	SM 5310C	
480-212651-1 DU	CD-1	Total/NA	Water	SM 5310C	
480-212651-4 DU	MW-1B	Total/NA	Water	SM 5310C	
480-212651-6 DU	MW-2B	Total/NA	Water	SM 5310C	
480-212651-9 DU	MW-4A	Total/NA	Water	SM 5310C	

Analysis Batch: 683891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-10	MW-7A	Total/NA	Water	SM 2540C	
480-212651-11	DUP	Total/NA	Water	SM 2540C	
MB 480-683891/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-683891/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 683904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	SM 2540C	
480-212651-2	CD-1RA	Total/NA	Water	SM 2540C	
480-212651-3	MW-1A	Total/NA	Water	SM 2540C	
480-212651-4	MW-1B	Total/NA	Water	SM 2540C	
480-212651-5	MW-2A	Total/NA	Water	SM 2540C	
480-212651-6	MW-2B	Total/NA	Water	SM 2540C	
480-212651-7	MW-3A	Total/NA	Water	SM 2540C	
480-212651-8	MW-3B	Total/NA	Water	SM 2540C	
480-212651-9	MW-4A	Total/NA	Water	SM 2540C	
MB 480-683904/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-683904/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-212651-9 DU	MW-4A	Total/NA	Water	SM 2540C	

Prep Batch: 683963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-5	MW-2A	Total/NA	Water	351.2	
MB 480-683963/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-683963/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 683972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	335.4	
480-212651-2	CD-1RA	Total/NA	Water	335.4	
480-212651-3	MW-1A	Total/NA	Water	335.4	
480-212651-4	MW-1B	Total/NA	Water	335.4	
480-212651-5	MW-2A	Total/NA	Water	335.4	
480-212651-6	MW-2B	Total/NA	Water	335.4	
480-212651-7	MW-3A	Total/NA	Water	335.4	
480-212651-9	MW-4A	Total/NA	Water	335.4	
480-212651-10	MW-7A	Total/NA	Water	335.4	
480-212651-11	DUP	Total/NA	Water	335.4	
MB 480-683972/21	Method Blank	Total/NA	Water	335.4	
MB 480-683972/215	Method Blank	Total/NA	Water	335.4	
MB 480-683972/75	Method Blank	Total/NA	Water	335.4	
HLCS 480-683972/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-683972/23	Lab Control Sample	Total/NA	Water	335.4	

General Chemistry (Continued)

Analysis Batch: 683972 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-683972/76	Lab Control Sample	Total/NA	Water	335.4	
LCSD 480-683972/217	Lab Control Sample Dup	Total/NA	Water	335.4	
LCSD 480-683972/25	Lab Control Sample Dup	Total/NA	Water	335.4	
480-212651-1 MS	CD-1	Total/NA	Water	335.4	

Analysis Batch: 684066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-5	MW-2A	Total/NA	Water	351.2	683963
MB 480-683963/1-A	Method Blank	Total/NA	Water	351.2	683963
LCS 480-683963/2-A	Lab Control Sample	Total/NA	Water	351.2	683963

Analysis Batch: 684115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	9038	
480-212651-2	CD-1RA	Total/NA	Water	9038	
480-212651-3	MW-1A	Total/NA	Water	9038	
480-212651-4	MW-1B	Total/NA	Water	9038	
480-212651-5	MW-2A	Total/NA	Water	9038	
480-212651-6	MW-2B	Total/NA	Water	9038	
480-212651-7	MW-3A	Total/NA	Water	9038	
MB 480-684115/140	Method Blank	Total/NA	Water	9038	
MB 480-684115/147	Method Blank	Total/NA	Water	9038	
MB 480-684115/151	Method Blank	Total/NA	Water	9038	
MB 480-684115/161	Method Blank	Total/NA	Water	9038	
MB 480-684115/169	Method Blank	Total/NA	Water	9038	
MB 480-684115/177	Method Blank	Total/NA	Water	9038	
MB 480-684115/185	Method Blank	Total/NA	Water	9038	
LCS 480-684115/144	Lab Control Sample	Total/NA	Water	9038	
LCS 480-684115/168	Lab Control Sample	Total/NA	Water	9038	
LCS 480-684115/176	Lab Control Sample	Total/NA	Water	9038	
LCS 480-684115/184	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 684264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-8	MW-3B	Total/NA	Water	335.4	
MB 480-684264/47	Method Blank	Total/NA	Water	335.4	
HLCS 480-684264/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-684264/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-684264/48	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 684305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-212651-2	CD-1RA	Total/NA	Water	SM 4500 Cl- E	
480-212651-3	MW-1A	Total/NA	Water	SM 4500 Cl- E	
480-212651-4	MW-1B	Total/NA	Water	SM 4500 Cl- E	
480-212651-5	MW-2A	Total/NA	Water	SM 4500 Cl- E	
480-212651-6	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-212651-7	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-212651-8	MW-3B	Total/NA	Water	SM 4500 Cl- E	
480-212651-9	MW-4A	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 684305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-10	MW-7A	Total/NA	Water	SM 4500 Cl- E	
480-212651-11	DUP	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/112	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/128	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/132	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/89	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-684305/96	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-684305/111	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-684305/131	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-684305/95	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-212651-1 MS	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-212651-1 MSD	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-212651-10 MS	MW-7A	Total/NA	Water	SM 4500 Cl- E	
480-212651-10 MSD	MW-7A	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 684451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-8	MW-3B	Total/NA	Water	9038	
480-212651-9	MW-4A	Total/NA	Water	9038	
480-212651-10	MW-7A	Total/NA	Water	9038	
480-212651-11	DUP	Total/NA	Water	9038	
MB 480-684451/18	Method Blank	Total/NA	Water	9038	
MB 480-684451/47	Method Blank	Total/NA	Water	9038	
MB 480-684451/51	Method Blank	Total/NA	Water	9038	
LCS 480-684451/22	Lab Control Sample	Total/NA	Water	9038	
LCS 480-684451/50	Lab Control Sample	Total/NA	Water	9038	
480-212651-9 MS	MW-4A	Total/NA	Water	9038	
480-212651-9 MSD	MW-4A	Total/NA	Water	9038	

Analysis Batch: 684651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	410.4	
480-212651-2	CD-1RA	Total/NA	Water	410.4	
480-212651-3	MW-1A	Total/NA	Water	410.4	
480-212651-4	MW-1B	Total/NA	Water	410.4	
480-212651-5	MW-2A	Total/NA	Water	410.4	
480-212651-6	MW-2B	Total/NA	Water	410.4	
480-212651-7	MW-3A	Total/NA	Water	410.4	
480-212651-8	MW-3B	Total/NA	Water	410.4	
480-212651-9	MW-4A	Total/NA	Water	410.4	
480-212651-10	MW-7A	Total/NA	Water	410.4	
480-212651-11	DUP	Total/NA	Water	410.4	
MB 480-684651/27	Method Blank	Total/NA	Water	410.4	
MB 480-684651/3	Method Blank	Total/NA	Water	410.4	
LCS 480-684651/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-684651/4	Lab Control Sample	Total/NA	Water	410.4	
480-212651-5 MS	MW-2A	Total/NA	Water	410.4	

Analysis Batch: 685080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-1	CD-1	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 685080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212651-2	CD-1RA	Total/NA	Water	310.2	
480-212651-3	MW-1A	Total/NA	Water	310.2	
480-212651-4	MW-1B	Total/NA	Water	310.2	
480-212651-5	MW-2A	Total/NA	Water	310.2	
480-212651-6	MW-2B	Total/NA	Water	310.2	
480-212651-7	MW-3A	Total/NA	Water	310.2	
480-212651-8	MW-3B	Total/NA	Water	310.2	
480-212651-9	MW-4A	Total/NA	Water	310.2	
480-212651-10	MW-7A	Total/NA	Water	310.2	
480-212651-11	DUP	Total/NA	Water	310.2	
MB 480-685080/130	Method Blank	Total/NA	Water	310.2	
MB 480-685080/149	Method Blank	Total/NA	Water	310.2	
MB 480-685080/51	Method Blank	Total/NA	Water	310.2	
MB 480-685080/79	Method Blank	Total/NA	Water	310.2	
MB 480-685080/87	Method Blank	Total/NA	Water	310.2	
LCS 480-685080/131	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-685080/150	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-685080/52	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-685080/80	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-685080/88	Lab Control Sample	Total/NA	Water	310.2	
480-212651-3 MS	MW-1A	Total/NA	Water	310.2	
480-212651-3 MSD	MW-1A	Total/NA	Water	310.2	

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: CD-1

Date Collected: 09/13/23 11:00
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/15/23 22:27
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:11
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:04
Total/NA	Prep	7470A			683599	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:15
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/16/23 22:38
Total/NA	Analysis	310.2		2	685080	CG	EET BUF	09/25/23 17:49
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 14:53
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:28
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:08
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:22
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:05
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:05
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:28
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/15/23 16:43

Client Sample ID: CD-1RA

Date Collected: 09/13/23 11:10
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/15/23 22:49
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:15
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:07
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:19
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/16/23 22:58
Total/NA	Analysis	310.2		2	685080	CG	EET BUF	09/25/23 17:49
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 14:58
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:29

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: CD-1RA

Date Collected: 09/13/23 11:10
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:08
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:24
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:09
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:06
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:28
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/15/23 17:42

Client Sample ID: MW-1A

Date Collected: 09/13/23 14:30
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/15/23 23:11
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:18
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:10
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:20
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/16/23 23:17
Total/NA	Analysis	310.2		2	685080	CG	EET BUF	09/25/23 17:53
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:01
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:30
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:08
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:25
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:13
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:06
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:29
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/15/23 20:40

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-1B

Date Collected: 09/13/23 14:25
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/15/23 23:33
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:31
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:24
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:22
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/16/23 23:37
Total/NA	Analysis	310.2		1	685080	CG	EET BUF	09/25/23 17:06
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:03
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:34
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:17
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:27
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:16
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:07
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:29
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/15/23 21:39

Client Sample ID: MW-2A

Date Collected: 09/13/23 13:35
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/15/23 23:55
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:35
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:27
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:26
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		2	683703	AF	EET BUF	09/17/23 01:15
Total/NA	Analysis	310.2		5	685080	CG	EET BUF	09/25/23 18:37
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:06
Total/NA	Analysis	350.1		5	683645	CLT	EET BUF	09/15/23 08:35

Client Sample ID: MW-2A

Date Collected: 09/13/23 13:35
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			683963	GW	EET BUF	09/18/23 17:00
Total/NA	Analysis	351.2		2	684066	CLT	EET BUF	09/19/23 12:16
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:28
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:20
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:07
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:30
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 03:33

Client Sample ID: MW-2B

Date Collected: 09/13/23 13:45
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/16/23 00:17
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:38
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:30
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:27
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		2	683703	AF	EET BUF	09/17/23 01:35
Total/NA	Analysis	310.2		10	685080	CG	EET BUF	09/25/23 18:59
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:09
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 09:43
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:17
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:32
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:49
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:08
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		5	684305	CG	EET BUF	09/20/23 11:47
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 04:32

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-3A

Date Collected: 09/13/23 12:40
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/16/23 00:39
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:41
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:34
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:28
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/17/23 01:55
Total/NA	Analysis	310.2		1	685080	CG	EET BUF	09/25/23 17:06
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:11
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:37
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:18
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:35
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 01:57
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684115	CG	EET BUF	09/19/23 16:09
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:34
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 07:00

Client Sample ID: MW-3B

Date Collected: 09/13/23 12:45
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/16/23 01:01
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:45
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:37
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:30
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/17/23 02:14
Total/NA	Analysis	310.2		2	685080	CG	EET BUF	09/25/23 17:53
Total/NA	Analysis	335.4		1	684264	CLT	EET BUF	09/20/23 10:08
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:38

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-212651-1

Client Sample ID: MW-3B

Date Collected: 09/13/23 12:45
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:18
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:36
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 02:04
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684451	CG	EET BUF	09/21/23 09:58
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:36
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 08:28

Client Sample ID: MW-4A

Date Collected: 09/13/23 12:15
Date Received: 09/14/23 10:00

Lab Sample ID: 480-212651-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/16/23 01:23
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:48
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:40
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:31
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		2	683703	AF	EET BUF	09/17/23 02:34
Total/NA	Analysis	310.2		5	685080	CG	EET BUF	09/25/23 18:37
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:32
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:44
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:17
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:37
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 02:08
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684451	CG	EET BUF	09/21/23 10:14
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683904	AB	EET BUF	09/18/23 11:32
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:36
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 09:27

Client Sample ID: MW-7A
Lab Sample ID: 480-212651-10

Date Collected: 09/13/23 14:55
Matrix: Water
Date Received: 09/14/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683686	ZN	EET BUF	09/16/23 01:45
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:51
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:44
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:32
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		2	683703	AF	EET BUF	09/17/23 02:54
Total/NA	Analysis	310.2		5	685080	CG	EET BUF	09/25/23 18:37
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:36
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:45
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:18
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:39
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 02:11
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684451	CG	EET BUF	09/21/23 10:15
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683891	AB	EET BUF	09/18/23 10:59
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:39
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 10:26

Client Sample ID: DUP
Lab Sample ID: 480-212651-11

Date Collected: 09/13/23 00:00
Matrix: Water
Date Received: 09/14/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	683828	ZN	EET BUF	09/18/23 14:53
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684378	LMH	EET BUF	09/20/23 15:55
Total/NA	Prep	3005A			683550	MP	EET BUF	09/15/23 08:21
Total/NA	Analysis	6010C		1	684567	LMH	EET BUF	09/21/23 16:47
Total/NA	Prep	7470A			683602	NVK	EET BUF	09/15/23 10:52
Total/NA	Analysis	7470A		1	683719	NVK	EET BUF	09/15/23 14:33
Total/NA	Analysis	SM 2340B		1	684641	JJP	EET BUF	09/22/23 13:56
Total/NA	Analysis	300.0		1	683703	AF	EET BUF	09/17/23 03:13
Total/NA	Analysis	310.2		5	685080	CG	EET BUF	09/25/23 18:37
Total/NA	Analysis	335.4		1	683972	CLT	EET BUF	09/18/23 15:38
Total/NA	Analysis	350.1		1	683645	CLT	EET BUF	09/15/23 08:46

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Client Sample ID: DUP
Lab Sample ID: 480-212651-11
Date Collected: 09/13/23 00:00
Matrix: Water
Date Received: 09/14/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			683576	GW	EET BUF	09/14/23 16:00
Total/NA	Analysis	351.2		1	683646	CLT	EET BUF	09/15/23 07:18
Total/NA	Analysis	353.2		1	683580	KB	EET BUF	09/14/23 15:40
Total/NA	Analysis	410.4		1	684651	DLG	EET BUF	09/22/23 13:48
Total/NA	Analysis	420.4		1	683659	CLT	EET BUF	09/15/23 02:15
Total/NA	Analysis	7196A		1	683492	CLT	EET BUF	09/14/23 11:05
Total/NA	Analysis	9038		1	684451	CG	EET BUF	09/21/23 10:15
Total/NA	Analysis	SM 2120B		1	683670	AB	EET BUF	09/15/23 10:14
Total/NA	Analysis	SM 2540C		1	683891	AB	EET BUF	09/18/23 10:59
Total/NA	Analysis	SM 4500 Cl- E		1	684305	CG	EET BUF	09/20/23 11:39
Total/NA	Analysis	SM 5210B		1	683566	CG	EET BUF	09/14/23 10:52
Total/NA	Analysis	SM 5310C		1	683825	AF	EET BUF	09/16/23 10:55

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Method Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET BUF
300.0	Anions, Ion Chromatography	EPA	EET BUF
310.2	Alkalinity	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
351.2	Nitrogen, Total Kjeldahl	EPA	EET BUF
353.2	Nitrate	EPA	EET BUF
410.4	COD	EPA	EET BUF
420.4	Phenolics, Total Recoverable	EPA	EET BUF
7196A	Chromium, Hexavalent	SW846	EET BUF
9038	Sulfate, Turbidimetric	SW846	EET BUF
SM 2120B	Color, Colorimetric	SM	EET BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET BUF
SM 4500 Cl- E	Chloride, Total	SM	EET BUF
SM 5210B	BOD, 5-Day	SM	EET BUF
SM 5310C	TOC	SM	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
351.2	Nitrogen, Total Kjeldahl	EPA	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212651-1
Project/Site: Towslee Landfill - Baseline

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-212651-1	CD-1	Water	09/13/23 11:00	09/14/23 10:00
480-212651-2	CD-1RA	Water	09/13/23 11:10	09/14/23 10:00
480-212651-3	MW-1A	Water	09/13/23 14:30	09/14/23 10:00
480-212651-4	MW-1B	Water	09/13/23 14:25	09/14/23 10:00
480-212651-5	MW-2A	Water	09/13/23 13:35	09/14/23 10:00
480-212651-6	MW-2B	Water	09/13/23 13:45	09/14/23 10:00
480-212651-7	MW-3A	Water	09/13/23 12:40	09/14/23 10:00
480-212651-8	MW-3B	Water	09/13/23 12:45	09/14/23 10:00
480-212651-9	MW-4A	Water	09/13/23 12:15	09/14/23 10:00
480-212651-10	MW-7A	Water	09/13/23 14:55	09/14/23 10:00
480-212651-11	DUP	Water	09/13/23 00:00	09/14/23 10:00

lazelwood Drive
ierst, NY 14228-2298
ne: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Syracuse #225

ent Information

Contact: ~~Kathleen McGrath~~, Chad Hill
Company: land Cty Soil & Water Cons District
Address: Grange Place Rm 202
land
Zip: 13045
Phone: 5681
345-4624(Tel)
Email: chadhill
een.mcgrath@cortlandswcd.org
Project Name: and Landfill/ Event Desc: Towslee Landfill - Baseline
York

Sampler: Chad Hill
Phone:
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48009337
SSOW#:

Lab PM: Beninati, John
E-Mail: John.Beninati@et.eurofinsus.com
State of Origin:

COC No: 480-187667-13274.1
Page: Page 1 of 2
Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	335.4 - Cyanide	350.1, 351.2, 410.4	5310C - TOC	420.4_NP - Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	N	N	N	N	N	B	S	S	S		
	9/13/23	1100	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
RA		1110	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1430	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
B		1425	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1335	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
B		1345	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1240	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
B		1245	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1215	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
7A		1455	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
~~Blind~~ DUP	9/13/23	0000	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		

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Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

480-212651 Chain of Custody

ble Hazard Identification

Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
rable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
shed by: Chad Hill	9/13/23 1520	ES-SYR		9/13/23 1520	ES-SYR
shed by: R. English	9-13-23, 1900	TAS		9/14/23 1000	TAS
shed by:	Date/Time:	Company	Received by:	Date/Time:	Company

od Seals Intact: Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.1, 2.6, 2.8, 2.4

Ver: 06/08/2021

9/20/2023

lazelwood Drive
ierst, NY 14228-2298
ne: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Syracuse #225

ent Information

Contact: ~~Kathleen McGrath~~, Chad Hill
Company: land Cty Soil & Water Cons District
Address: Grange Place Rm 202
land
Zip: 13045
Phone: 5681 345-4624(Tel)
chadhill een.mcgrath@cortlandswcd.org
Project Name: and Landfill/ Event Desc: Towslee Landfill - Baseline
York

Sampler: Chad Hill
Phone:
Lab PM: Beninati, John
E-Mail: John.Beninati@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48009337
SSOW#:

COC No: 480-187667-13274.1
Page: Page 1 of 2
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

ple Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	335.4 - Cyanide	350.1, 351.2, 410.4	5310C - TOC	420.4_NP - Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	N	N	N	N	N	B	S	S	S		
RA	9/13/23	1100	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1110	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
B		1430	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1425	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
B		1335	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1345	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
B		1240	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
A		1245	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
7A		1215	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
~~DUP~~ DUP		1455	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		
	9/13/23	0000	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X		

480-212651 Chain of Custody

ble Hazard Identification
lon-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
rable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements:

Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
shed by: Chad Hill	9/13/23 1520	ES-SYR		9/13/23 1520	ES-SYR
shed by: R. English	9-13-23, 1900	[illegible]		9/14/23 1000	TAS
shed by:	Date/Time:	Company	Received by:	Date/Time:	Company

ody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.1, 2.6, 2.8, 2.4

Ver: 06/08/2021

Page 91 of 92
9/20/2023

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-212651-1

Login Number: 212651
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CCSWCD
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hill
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, New York 13045

Generated 9/29/2023 2:27:18 PM

JOB DESCRIPTION

Towslee Landfill - Baseine GW

JOB NUMBER

480-212732-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
9/29/2023 2:27:18 PM

Authorized for release by
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Designee for
John Beninati, Project Manager I
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Table of Contents

Definitions/Glossary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-212732-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-212732-1

Receipt
The samples were received on 9/15/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.1º C, 2.4º C and 2.7º C.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 200-195808.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: CD-1 — Lab Sample ID: 480-212732-1

No Detections.

Client Sample ID: CD-1RA — Lab Sample ID: 480-212732-2

No Detections.

Client Sample ID: MW-1A — Lab Sample ID: 480-212732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.29		0.20		ug/L	1		8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	1.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.0		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-1B — Lab Sample ID: 480-212732-4

No Detections.

Client Sample ID: MW-2A — Lab Sample ID: 480-212732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4		0.20		ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	8.5		4.3		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.3		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.8		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	29		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	36		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-2B — Lab Sample ID: 480-212732-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	13		0.20		ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	13		4.2		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	17		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.5		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	21		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-6A — Lab Sample ID: 480-212732-7

No Detections.

Client Sample ID: MW-6B — Lab Sample ID: 480-212732-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: CD-1

Date Collected: 09/14/23 09:15
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-1

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/18/23 09:38	09/19/23 17:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*41*		*15 - 110*	*09/18/23 09:38*	*09/19/23 17:06*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:31	1
6:2 FTS	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:31	1
8:2 FTS	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*84*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C4 PFBA	*112*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C5 PFPeA	*102*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C2 PFHxA	*110*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C4 PFHpA	*98*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C4 PFOA	*101*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C5 PFNA	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C2 PFDA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C2 PFUnA	*74*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C2 PFDoA	*72*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C2 PFTeDA	*61*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C3 PFBS	*92*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
18O2 PFHxS	*95*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
13C4 PFOS	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
d5-NEtFOSAA	*69*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
M2-6:2 FTS	*81*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*
M2-8:2 FTS	*70*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:31*	*1*

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: CD-1RA

Date Collected: 09/14/23 09:25
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-2

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/18/23 09:38	09/19/23 17:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*40*		*15 - 110*	*09/18/23 09:38*	*09/19/23 17:57*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:39	1
6:2 FTS	ND		4.5		ng/L		09/26/23 07:30	09/28/23 03:39	1
8:2 FTS	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C4 PFBA	*106*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C5 PFPeA	*98*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C2 PFHxA	*105*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C4 PFHpA	*107*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C4 PFOA	*101*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C5 PFNA	*92*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C2 PFDA	*88*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C2 PFUnA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C2 PFDoA	*84*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C2 PFTeDA	*78*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C3 PFBS	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
18O2 PFHxS	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
13C4 PFOS	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
d3-NMeFOSAA	*84*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
d5-NEtFOSAA	*85*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
M2-6:2 FTS	*83*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*
M2-8:2 FTS	*77*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:39*	*1*

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: MW-1A

Date Collected: 09/14/23 10:20
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-3

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.29		0.20		ug/L		09/18/23 09:38	09/19/23 18:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*41*		*15 - 110*	*09/18/23 09:38*	*09/19/23 18:14*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorooctanoic acid (PFOA)	1.9		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorodecanoic acid (PFDA)	2.0		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L		09/26/23 07:30	09/28/23 03:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L		09/26/23 07:30	09/28/23 03:47	1
6:2 FTS	ND		4.6		ng/L		09/26/23 07:30	09/28/23 03:47	1
8:2 FTS	ND		1.8		ng/L		09/26/23 07:30	09/28/23 03:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*84*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C4 PFBA	*102*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C5 PFPeA	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C2 PFHxA	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C4 PFHpA	*98*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C4 PFOA	*96*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C5 PFNA	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C2 PFDA	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C2 PFUnA	*88*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C2 PFDoA	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C2 PFTeDA	*76*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C3 PFBS	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
18O2 PFHxS	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
13C4 PFOS	*87*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
d3-NMeFOSAA	*81*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
d5-NEtFOSAA	*85*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
M2-6:2 FTS	*79*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*
M2-8:2 FTS	*73*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:47*	*1*

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: MW-1B

Date Collected: 09/14/23 10:30
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-4

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/18/23 09:38	09/19/23 18:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*42*		*15 - 110*	*09/18/23 09:38*	*09/19/23 18:32*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 03:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 03:55	1
6:2 FTS	ND		4.3		ng/L		09/26/23 07:30	09/28/23 03:55	1
8:2 FTS	ND		1.7		ng/L		09/26/23 07:30	09/28/23 03:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C4 PFBA	*105*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C5 PFPeA	*99*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C2 PFHxA	*100*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C4 PFHpA	*104*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C4 PFOA	*101*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C5 PFNA	*95*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C2 PFDA	*94*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C2 PFUnA	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C2 PFDoA	*83*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C2 PFTeDA	*76*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C3 PFBS	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
18O2 PFHxS	*91*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
13C4 PFOS	*92*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
d3-NMeFOSAA	*84*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
d5-NEtFOSAA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
M2-6:2 FTS	*80*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*
M2-8:2 FTS	*77*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:55*	*1*

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Client Sample ID: MW-2A
Date Collected: 09/14/23 09:50
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-5
Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.4**		0.20		ug/L		09/18/23 09:38	09/19/23 18:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*38*		*15 - 110*	*09/18/23 09:38*	*09/19/23 18:49*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.5**		4.3		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluoropentanoic acid (PFPeA)	**3.3**		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorohexanoic acid (PFHxA)	**5.4**		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluoroheptanoic acid (PFHpA)	**4.8**		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorooctanoic acid (PFOA)	**29**		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorohexanesulfonic acid (PFHxS)	**2.5**		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorooctanesulfonic acid (PFOS)	**36**		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:04	1
6:2 FTS	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:04	1
8:2 FTS	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*91*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C4 PFBA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C5 PFPeA	*102*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C2 PFHxA	*104*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C4 PFHpA	*103*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C4 PFOA	*99*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C5 PFNA	*98*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C2 PFDA	*100*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C2 PFUnA	*100*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C2 PFDoA	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C2 PFTeDA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C3 PFBS	*95*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
18O2 PFHxS	*96*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
13C4 PFOS	*99*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
d3-NMeFOSAA	*91*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
d5-NEtFOSAA	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*
M2-6:2 FTS	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:04*	*1*

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Client Sample ID: MW-2A
Lab Sample ID: 480-212732-5
Date Collected: 09/14/23 09:50
Matrix: Water
Date Received: 09/15/23 10:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	83		50 - 150	09/26/23 07:30	09/28/23 04:04	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: MW-2B

Date Collected: 09/14/23 10:00
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-6

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**13**		0.20		ug/L		09/18/23 09:38	09/19/23 19:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*40*		*15 - 110*	*09/18/23 09:38*	*09/19/23 19:06*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**13**		4.2		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluoropentanoic acid (PFPeA)	**8.2**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorohexanoic acid (PFHxA)	**17**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluoroheptanoic acid (PFHpA)	**7.5**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorooctanoic acid (PFOA)	**21**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorobutanesulfonic acid (PFBS)	**2.2**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorohexanesulfonic acid (PFHxS)	**3.9**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorooctanesulfonic acid (PFOS)	**13**		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2		ng/L		09/26/23 07:30	09/28/23 04:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2		ng/L		09/26/23 07:30	09/28/23 04:12	1
6:2 FTS	ND		4.2		ng/L		09/26/23 07:30	09/28/23 04:12	1
8:2 FTS	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*75*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C4 PFBA	*71*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C5 PFPeA	*83*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C2 PFHxA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C4 PFHpA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C4 PFOA	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C5 PFNA	*81*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C2 PFDA	*83*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C2 PFUnA	*77*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C2 PFDoA	*81*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C2 PFTeDA	*72*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C3 PFBS	*77*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
18O2 PFHxS	*80*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
13C4 PFOS	*83*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
d3-NMeFOSAA	*74*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
d5-NEtFOSAA	*77*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*
M2-6:2 FTS	*87*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:12*	*1*

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Client Sample ID: MW-2B
Lab Sample ID: 480-212732-6
Date Collected: 09/14/23 10:00
Matrix: Water
Date Received: 09/15/23 10:45

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	70		50 - 150	09/26/23 07:30	09/28/23 04:12	1

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: MW-6A

Date Collected: 09/14/23 08:30
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-7

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/18/23 09:38	09/19/23 19:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*43*		*15 - 110*	*09/18/23 09:38*	*09/19/23 19:23*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L		09/26/23 07:30	09/28/23 04:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L		09/26/23 07:30	09/28/23 04:20	1
6:2 FTS	ND		4.6		ng/L		09/26/23 07:30	09/28/23 04:20	1
8:2 FTS	ND		1.8		ng/L		09/26/23 07:30	09/28/23 04:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*87*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C4 PFBA	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C5 PFPeA	*95*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C2 PFHxA	*104*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C4 PFHpA	*101*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C4 PFOA	*106*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C5 PFNA	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C2 PFDA	*95*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C2 PFUnA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C2 PFDoA	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C3 PFBS	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
18O2 PFHxS	*91*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
13C4 PFOS	*98*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
d3-NMeFOSAA	*89*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
d5-NEtFOSAA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
M2-6:2 FTS	*84*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*
M2-8:2 FTS	*79*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:20*	*1*

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: MW-6B

Date Collected: 09/14/23 08:35
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-8

Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/18/23 09:38	09/19/23 19:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*09/18/23 09:38*	*09/19/23 19:40*	*1*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:28	1
6:2 FTS	ND		4.3		ng/L		09/26/23 07:30	09/28/23 04:28	1
8:2 FTS	ND		1.7		ng/L		09/26/23 07:30	09/28/23 04:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C4 PFBA	*112*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C5 PFPeA	*106*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C2 PFHxA	*110*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C4 PFHpA	*109*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C4 PFOA	*103*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C5 PFNA	*101*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C2 PFDA	*94*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C2 PFUnA	*92*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C2 PFDoA	*92*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C2 PFTeDA	*81*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C3 PFBS	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
18O2 PFHxS	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
13C4 PFOS	*98*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
d3-NMeFOSAA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
d5-NEtFOSAA	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
M2-6:2 FTS	*87*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*
M2-8:2 FTS	*80*		*50 - 150*	*09/26/23 07:30*	*09/28/23 04:28*	*1*

Isotope Dilution Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-212732-1	CD-1	41							
480-212732-1 MS	CD-1	38							
480-212732-1 MSD	CD-1	37							
480-212732-2	CD-1RA	40							
480-212732-3	MW-1A	41							
480-212732-4	MW-1B	42							
480-212732-5	MW-2A	38							
480-212732-6	MW-2B	40							
480-212732-7	MW-6A	43							
480-212732-8	MW-6B	39							
LCS 480-683846/2-A	Lab Control Sample	33							
MB 480-683846/1-A	Method Blank	44							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (50-150)	PFBA (50-150)	PFPeA (50-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
480-212732-1	CD-1	84	112	102	110	98	101	97	86
480-212732-2	CD-1RA	86	106	98	105	107	101	92	88
480-212732-3	MW-1A	84	102	97	97	98	96	89	93
480-212732-4	MW-1B	86	105	99	100	104	101	95	94
480-212732-5	MW-2A	91	90	102	104	103	99	98	100
480-212732-6	MW-2B	75	71	83	90	86	93	81	83
480-212732-7	MW-6A	87	86	95	104	101	106	97	95
480-212732-8	MW-6B	90	112	106	110	109	103	101	94
LCS 200-195808/2-A	Lab Control Sample	84	111	103	108	102	104	96	92
LCSD 200-195808/3-A	Lab Control Sample Dup	78	106	100	104	99	101	93	92
MB 200-195808/1-A	Method Blank	76	104	96	99	100	97	93	92

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-212732-1	CD-1	74	72	61	92	95	89	72	69
480-212732-2	CD-1RA	90	84	78	90	89	90	84	85
480-212732-3	MW-1A	88	93	76	89	90	87	81	85
480-212732-4	MW-1B	89	83	76	93	91	92	84	86
480-212732-5	MW-2A	100	97	86	95	96	99	91	93
480-212732-6	MW-2B	77	81	72	77	80	83	74	77
480-212732-7	MW-6A	90	93	80	89	91	98	89	90
480-212732-8	MW-6B	92	92	81	97	97	98	90	90
LCS 200-195808/2-A	Lab Control Sample	83	88	79	94	93	94	91	88
LCSD 200-195808/3-A	Lab Control Sample Dup	83	82	77	87	90	89	82	81
MB 200-195808/1-A	Method Blank	85	83	78	86	88	90	80	79

Isotope Dilution Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	M262FTS (50-150)	M282FTS (50-150)								
480-212732-1	CD-1	81	70								
480-212732-2	CD-1RA	83	77								
480-212732-3	MW-1A	79	73								
480-212732-4	MW-1B	80	77								
480-212732-5	MW-2A	90	83								
480-212732-6	MW-2B	87	70								
480-212732-7	MW-6A	84	79								
480-212732-8	MW-6B	87	80								
LCS 200-195808/2-A	Lab Control Sample	82	77								
LCSD 200-195808/3-A	Lab Control Sample Dup	79	75								
MB 200-195808/1-A	Method Blank	79	74								

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-683846/1-A
Matrix: Water
Analysis Batch: 684025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/18/23 09:38	09/19/23 15:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*44*		*15 - 110*	*09/18/23 09:38*	*09/19/23 15:57*	*1*

Lab Sample ID: LCS 480-683846/2-A
Matrix: Water
Analysis Batch: 684025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683846

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.20		ug/L		110	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*15 - 110*

Lab Sample ID: 480-212732-1 MS
Matrix: Water
Analysis Batch: 684025

Client Sample ID: CD-1
Prep Type: Total/NA
Prep Batch: 683846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	ND		2.00	2.21		ug/L		110	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*38*		*15 - 110*

Lab Sample ID: 480-212732-1 MSD
Matrix: Water
Analysis Batch: 684025

Client Sample ID: CD-1
Prep Type: Total/NA
Prep Batch: 683846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		2.00	2.23		ug/L		111	40 - 140	1	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*37*		*15 - 110*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-195808/1-A
Matrix: Water
Analysis Batch: 195862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-195808/1-A
Matrix: Water
Analysis Batch: 195862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
6:2 FTS	ND		5.0		ng/L		09/26/23 07:30	09/28/23 03:06	1
8:2 FTS	ND		2.0		ng/L		09/26/23 07:30	09/28/23 03:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*76*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C4 PFBA	*104*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C5 PFPeA	*96*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C2 PFHxA	*99*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C4 PFHpA	*100*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C4 PFOA	*97*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C5 PFNA	*93*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C2 PFDA	*92*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C2 PFUnA	*85*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C2 PFDoA	*83*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C2 PFTeDA	*78*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C3 PFBS	*86*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
18O2 PFHxS	*88*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
13C4 PFOS	*90*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
d3-NMeFOSAA	*80*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
d5-NEtFOSAA	*79*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
M2-6:2 FTS	*79*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*
M2-8:2 FTS	*74*		*50 - 150*	*09/26/23 07:30*	*09/28/23 03:06*	*1*

Lab Sample ID: LCS 200-195808/2-A
Matrix: Water
Analysis Batch: 195862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	83.4		ng/L		104	70 - 130
Perfluoropentanoic acid (PFPeA)	80.0	86.2		ng/L		108	70 - 130
Perfluorohexanoic acid (PFHxA)	80.0	83.7		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	80.0	81.2		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	80.0	83.4		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	80.0	84.7		ng/L		106	70 - 130
Perfluorodecanoic acid (PFDA)	80.0	85.9		ng/L		107	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-195808/2-A
Matrix: Water
Analysis Batch: 195862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoroundecanoic acid (PFUnA)			80.0	96.5		ng/L		121	70 - 130		
Perfluorododecanoic acid (PFDoA)			80.0	81.2		ng/L		102	70 - 130		
Perfluorotridecanoic acid (PFTriA)			80.0	84.9		ng/L		106	70 - 130		
Perfluorotetradecanoic acid (PFTeA)			80.0	79.4		ng/L		99	70 - 130		
Perfluorobutanesulfonic acid (PFBS)			71.0	72.7		ng/L		102	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			73.1	72.0		ng/L		98	70 - 130		
Perfluoroheptanesulfonic acid (PFHpS)			76.2	79.4		ng/L		104	70 - 130		
Perfluorodecanesulfonic acid (PFDS)			77.2	71.7		ng/L		93	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			74.2	73.9		ng/L		100	70 - 130		
Perfluorooctanesulfonamide (FOSA)			80.0	86.6		ng/L		108	70 - 130		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			80.0	83.8		ng/L		105	70 - 130		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			80.0	79.2		ng/L		99	70 - 130		
6:2 FTS			76.1	80.6		ng/L		106	60 - 140		
8:2 FTS			76.8	89.2		ng/L		116	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*84*		*50 - 150*
13C4 PFBA	*111*		*50 - 150*
13C5 PFPeA	*103*		*50 - 150*
13C2 PFHxA	*108*		*50 - 150*
13C4 PFHpA	*102*		*50 - 150*
13C4 PFOA	*104*		*50 - 150*
13C5 PFNA	*96*		*50 - 150*
13C2 PFDA	*92*		*50 - 150*
13C2 PFUnA	*83*		*50 - 150*
13C2 PFDoA	*88*		*50 - 150*
13C2 PFTeDA	*79*		*50 - 150*
13C3 PFBS	*94*		*50 - 150*
18O2 PFHxS	*93*		*50 - 150*
13C4 PFOS	*94*		*50 - 150*
d3-NMeFOSAA	*91*		*50 - 150*
d5-NEtFOSAA	*88*		*50 - 150*
M2-6:2 FTS	*82*		*50 - 150*
M2-8:2 FTS	*77*		*50 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 200-195808/3-A
Matrix: Water
Analysis Batch: 195862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			80.0	87.5		ng/L		109	70 - 130	5	30
Perfluoropentanoic acid (PFPeA)			80.0	87.3		ng/L		109	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)			80.0	80.5		ng/L		101	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)			80.0	86.5		ng/L		108	70 - 130	6	30
Perfluorooctanoic acid (PFOA)			80.0	81.7		ng/L		102	70 - 130	2	30
Perfluorononanoic acid (PFNA)			80.0	81.3		ng/L		102	70 - 130	4	30
Perfluorodecanoic acid (PFDA)			80.0	78.1		ng/L		98	70 - 130	10	30
Perfluoroundecanoic acid (PFUnA)			80.0	85.1		ng/L		106	70 - 130	13	30
Perfluorododecanoic acid (PFDoA)			80.0	86.1		ng/L		108	70 - 130	6	30
Perfluorotridecanoic acid (PFTriA)			80.0	88.1		ng/L		110	70 - 130	4	30
Perfluorotetradecanoic acid (PFTeA)			80.0	80.0		ng/L		100	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)			71.0	79.7		ng/L		112	70 - 130	9	30
Perfluorohexanesulfonic acid (PFHxS)			73.1	74.3		ng/L		102	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)			76.2	83.2		ng/L		109	70 - 130	5	30
Perfluorodecanesulfonic acid (PFDS)			77.2	72.6		ng/L		94	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)			74.2	78.5		ng/L		106	70 - 130	6	30
Perfluorooctanesulfonamide (FOSA)			80.0	91.7		ng/L		115	70 - 130	6	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			80.0	86.7		ng/L		108	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			80.0	82.9		ng/L		104	70 - 130	5	30
6:2 FTS			76.1	83.3		ng/L		109	60 - 140	3	30
8:2 FTS			76.8	92.4		ng/L		120	70 - 130	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*78*		*50 - 150*
13C4 PFBA	*106*		*50 - 150*
13C5 PFPeA	*100*		*50 - 150*
13C2 PFHxA	*104*		*50 - 150*
13C4 PFHpA	*99*		*50 - 150*
13C4 PFOA	*101*		*50 - 150*
13C5 PFNA	*93*		*50 - 150*
13C2 PFDA	*92*		*50 - 150*
13C2 PFUnA	*83*		*50 - 150*
13C2 PFDoA	*82*		*50 - 150*
13C2 PFTeDA	*77*		*50 - 150*
13C3 PFBS	*87*		*50 - 150*
18O2 PFHxS	*90*		*50 - 150*
13C4 PFOS	*89*		*50 - 150*
d3-NMeFOSAA	*82*		*50 - 150*
d5-NEtFOSAA	*81*		*50 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 200-195808/3-A
Matrix: Water
Analysis Batch: 195862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195808

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-6:2 FTS	79		50 - 150
M2-8:2 FTS	75		50 - 150

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

GC/MS Semi VOA

Prep Batch: 683846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212732-1	CD-1	Total/NA	Water	3510C	
480-212732-2	CD-1RA	Total/NA	Water	3510C	
480-212732-3	MW-1A	Total/NA	Water	3510C	
480-212732-4	MW-1B	Total/NA	Water	3510C	
480-212732-5	MW-2A	Total/NA	Water	3510C	
480-212732-6	MW-2B	Total/NA	Water	3510C	
480-212732-7	MW-6A	Total/NA	Water	3510C	
480-212732-8	MW-6B	Total/NA	Water	3510C	
MB 480-683846/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-683846/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-212732-1 MS	CD-1	Total/NA	Water	3510C	
480-212732-1 MSD	CD-1	Total/NA	Water	3510C	

Analysis Batch: 684025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212732-1	CD-1	Total/NA	Water	8270D SIM ID	683846
480-212732-2	CD-1RA	Total/NA	Water	8270D SIM ID	683846
480-212732-3	MW-1A	Total/NA	Water	8270D SIM ID	683846
480-212732-4	MW-1B	Total/NA	Water	8270D SIM ID	683846
480-212732-5	MW-2A	Total/NA	Water	8270D SIM ID	683846
480-212732-6	MW-2B	Total/NA	Water	8270D SIM ID	683846
480-212732-7	MW-6A	Total/NA	Water	8270D SIM ID	683846
480-212732-8	MW-6B	Total/NA	Water	8270D SIM ID	683846
MB 480-683846/1-A	Method Blank	Total/NA	Water	8270D SIM ID	683846
LCS 480-683846/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	683846
480-212732-1 MS	CD-1	Total/NA	Water	8270D SIM ID	683846
480-212732-1 MSD	CD-1	Total/NA	Water	8270D SIM ID	683846

LCMS

Prep Batch: 195808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212732-1	CD-1	Total/NA	Water	3535	
480-212732-2	CD-1RA	Total/NA	Water	3535	
480-212732-3	MW-1A	Total/NA	Water	3535	
480-212732-4	MW-1B	Total/NA	Water	3535	
480-212732-5	MW-2A	Total/NA	Water	3535	
480-212732-6	MW-2B	Total/NA	Water	3535	
480-212732-7	MW-6A	Total/NA	Water	3535	
480-212732-8	MW-6B	Total/NA	Water	3535	
MB 200-195808/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-195808/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-195808/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 195862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212732-1	CD-1	Total/NA	Water	537 (modified)	195808
480-212732-2	CD-1RA	Total/NA	Water	537 (modified)	195808
480-212732-3	MW-1A	Total/NA	Water	537 (modified)	195808
480-212732-4	MW-1B	Total/NA	Water	537 (modified)	195808
480-212732-5	MW-2A	Total/NA	Water	537 (modified)	195808

LCMS (Continued)

Analysis Batch: 195862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-212732-6	MW-2B	Total/NA	Water	537 (modified)	195808
480-212732-7	MW-6A	Total/NA	Water	537 (modified)	195808
480-212732-8	MW-6B	Total/NA	Water	537 (modified)	195808
MB 200-195808/1-A	Method Blank	Total/NA	Water	537 (modified)	195808
LCS 200-195808/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	195808
LCSD 200-195808/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	195808

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: CD-1
Date Collected: 09/14/23 09:15
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 17:06
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 03:31

Client Sample ID: CD-1RA
Date Collected: 09/14/23 09:25
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 17:57
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 03:39

Client Sample ID: MW-1A
Date Collected: 09/14/23 10:20
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 18:14
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 03:47

Client Sample ID: MW-1B
Date Collected: 09/14/23 10:30
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 18:32
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 03:55

Client Sample ID: MW-2A
Date Collected: 09/14/23 09:50
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 18:49
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 04:04

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Client Sample ID: MW-2B
Date Collected: 09/14/23 10:00
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 19:06
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 04:12

Client Sample ID: MW-6A
Date Collected: 09/14/23 08:30
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 19:23
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 04:20

Client Sample ID: MW-6B
Date Collected: 09/14/23 08:35
Date Received: 09/15/23 10:45

Lab Sample ID: 480-212732-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			683846	JMP	EET BUF	09/18/23 09:38
Total/NA	Analysis	8270D SIM ID		1	684025	JMM	EET BUF	09/19/23 19:40
Total/NA	Prep	3535			195808	MCK	EET BUR	09/26/23 07:30
Total/NA	Analysis	537 (modified)		1	195862	BWC	EET BUR	09/28/23 04:28

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-212732-1
Project/Site: Towslee Landfill - Baseine GW

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-18-24
Florida	NELAP	E87467	06-30-24
Minnesota	NELAP	050-999-436	12-31-23
New Hampshire	NELAP	2006	12-18-23
New Jersey	NELAP	VT972	06-30-24
New York	NELAP	10391	03-31-24
Pennsylvania	NELAP	68-00489	04-30-24
Rhode Island	State	LAO00298	12-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-24
Virginia	NELAP	460209	12-14-23
Wisconsin	State	399140830	08-31-24

Method Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	EET BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3535	Solid-Phase Extraction (SPE)	SW846	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseine GW

Job ID: 480-212732-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-212732-1	CD-1	Water	09/14/23 09:15	09/15/23 10:45
480-212732-2	CD-1RA	Water	09/14/23 09:25	09/15/23 10:45
480-212732-3	MW-1A	Water	09/14/23 10:20	09/15/23 10:45
480-212732-4	MW-1B	Water	09/14/23 10:30	09/15/23 10:45
480-212732-5	MW-2A	Water	09/14/23 09:50	09/15/23 10:45
480-212732-6	MW-2B	Water	09/14/23 10:00	09/15/23 10:45
480-212732-7	MW-6A	Water	09/14/23 08:30	09/15/23 10:45
480-212732-8	MW-6B	Water	09/14/23 08:35	09/15/23 10:45

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Syracuse #225

Client Information	Sampler: Chad Hill	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-187669-29826.1
Client Contact: Ms. Kathleen McGrath Chad Hill	Phone:	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Cortland Cty Soil & Water Cons District	PWSID:	Analysis Requested		Job #:

Address: 100 Grange Place Rm 202	Due Date Requested:	
City: Cortland	TAT Requested (days): Standard	
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No	
Phone: 5681 607-345-4624(Tel)	PO #: Purchase Order not required	
Email: Chad.Hill kathleen.mcgrath@cortlandswcd.org	WO #:	
Project Name: Cortland Landfill	Project #: 48009337	
Site: New York	SSOW#:	

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 Analytes)	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	X	
CD-1	9/14/23	0915	G	Water	N	N	X	X		
CD-1RA		0925	G	Water	N	N	X	X		
MW-1A		1020	G	Water	N	N	X	X		
MW-1B		1030	G	Water	N	N	X	X		
MW-2A		0950	G	Water	N	N	X	X		
MW-2B		1000	G	Water	N	N	X	X		
MW-6A		0930	G	Water	N	N	X	X		
MW-6B		0835	G	Water	N	N	X	X		

9-14-23

480-212732 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Chad Hill	9/14/23 1510	CCSWCD		9/14/23 1510	ES-SYR
2	R. English	9-14-23, 1900	ES	C Wallace	9/15/23 1045	TAS
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4, 2.1, 2.7 #1

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone 716-691-2600 Fax 716-691-7991

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Beninati, John	C No: 0-82695 1
Client Contact: Shipping/Receiving	Phone	E-Mail: John.Beninati@et eurofinsus com	State: New York
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York	Page: Page 1 of 1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 9/28/2023		Job #: 480-212732-1
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: Cortland Landfill	Project #: 48009337		
Site: Cortland LDF	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IVWT PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CD-1 (480-212732-1)	9/14/23	09 15 Eastern		Water			X	2	
CD-1RA (480-212732-2)	9/14/23	09 25 Eastern		Water			X	2	
MW-1A (480-212732-3)	9/14/23	10 20 Eastern		Water			X	2	
MW-1B (480-212732-4)	9/14/23	10 30 Eastern		Water			X	2	
MW-2A (480-212732-5)	9/14/23	09 50 Eastern		Water			X	2	
MW-2B (480-212732-6)	9/14/23	10 00 Eastern		Water			X	2	
MW-6A (480-212732-7)	9/14/23	08 30 Eastern		Water			X	2	
MW-6B (480-212732-8)	9/14/23	08 35 Eastern		Water			X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:		
Relinquished by:	Date/Time: 9-15-23 1600	Company: DAB	Received by:	Date/Time: 9/16/23 9:28	Company: DAB
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks		

Ver: 06/08/2021


ORIGIN ID:DKKA (716) 691-2600
BUFFALO LAB
EUROFINS BUFFALO
10 HAZELWOOD DRIVE

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 15SEP23
ACTWGT: 36.60 LB
CAD: 846654/CAFE3753
DIMS: 26x15x14 IN

BILL SENDER

TO SAMPLE MGT.
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: EUROFINS BURLINGTON

585C4/8B35/AED7

FedEx Express

J233023051201uv

TRK# 0201 6758 4753 7484

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-212732-1

Login Number: 212732
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 2.1 2.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-212732-1

Login Number: 212732
List Number: 2
Creator: Campbell, Adrik

List Source: Eurofins Burlington
List Creation: 09/16/23 12:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2225623
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C

Independent Data Validation Report

DATA VALIDATION

BASELINE PARAMETERS MONITORING

TOWSLEE LANDFILL

Collected September 2023

Volatile Organics

Metals

Leachate Indicators

Prepared for:

CORTLAND COUNTY SWCD

100 Grange Place, Room 202

Cortland, NY 13045

Prepared by:

DATAVAL Inc.

201 W. Genesee Street

Fayetteville, NY 13066

DATA ASSESSMENT

Two sample delivery groups, 480-212610 and 480-212651, containing analytical results for 14 aqueous samples were received from the Cortland County SWCD on 19Feb23. The samples were collected from the Cortland County Towslee Landfill site between 12Sep23 and 13Sep23, as required by 6 NYCRR Part 360 (10/94). The ASP deliverables packages included formal reports, raw data, the necessary QC, and supporting information for Baseline Parameters Monitoring. The samples were identified by Chain of Custody documents and trackable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. Laboratory data was evaluated according to the Quality Assurance / Quality Control Requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation, and SOP HW-2a, Rev. 15, December 2012, ICP-AES Data Validation) were used as a technical reference.

Three samples were collected on 12Sep23 and eleven were collected on 13Sep23. Each group of samples was transferred to a courier on the day they were collected and delivered to the laboratory the following morning.

At the time of receipt, the sample coolers were found to be intact and properly chilled. Eight cooler temperatures, ranging between 2.1°C and 3.1°C, were recorded at that time.

Proper sample preservation was documented in the field custody records and verified in the laboratory at the time of receipt. A pH<2 was obtained from each VOC sample at the time of analysis. This verified that each VOC sample was properly stabilized.

Laboratory analyses were well organized and supported by the raw data. Each analysis incorporated the QA/QC requirements of ASP protocol. Areas where ASP requirements were not completely satisfied are addressed below. A detailed discussion of the review process follows.

LEACHATE INDICATORS

Test methods for the determination of Leachate Indicators utilize classical wet chemistry techniques. These methods were performed well and demonstrated an acceptable level of quality control. Areas of concern are addressed below.

It is noted that the laboratory instruments used for the analysis of TKN, sulfate and chloride were programed to produce results in units of concentration, directly. Instrument response was not provided. This made it impossible to verify the calculations used to obtain the reported concentrations of these analytes.

Hexavalent Chromium (HEXCR)
The hexavalent chromium spike to MW-5A produced a low recovery of 76%. The hexavalent chromium results from SDG 480-212610 have been qualified as estimations based on this indication of negative bias.

Biological Oxygen Demand (BOD)
A BOD spike associated with SDG 480-212610 produced a low recovery of 69%. The BOD results from SDG 480-212610 have been qualified as estimations based on this indication of negative bias.

Alkalinity, Cyanide, Sulfate and Acetone
The spiked blanks associated with SDG 480-212651 produced unacceptable recoveries of alkalinity (183%,162%), cyanide (79%), and sulfate (166%). Based on this performance, the positive alkalinity and sulfate spiked blanks associated with SDG 480-212651 have been qualified as estimations. All of the associated cyanide results have been similarly qualified.

A high recovery was also reported for an acetone (159%) spiked blank associated with SDG 480-212610. This indication of positive bias, however, warranted no concern because acetone was not detected in this group of samples.

INORGANICS

The analysis of each metal was associated with the appropriate quality control checks, as defined by ASP protocol. The QC associated with this group of samples satisfied most of these requirements. The exceptions are addressed below.

It is noted that MW-6A was analyzed for dissolved metals and total metals.

VOLATILE ORGANIC ANALYTES

Each VOA analysis incorporates several quality assurance checks to demonstrate the precision and accuracy of laboratory measurements. These include the addition of surrogates and internal standards to every calibration standard, blank and program sample. A matrix spiked sample, a matrix spiked duplicate, and a spiked blank are also analyzed with each group of samples. ASP protocol defines acceptance criteria for each of these evaluations. Most of these requirements were satisfied. The exceptions are addressed below.

Spiked Blank (LCS)
An LCS associated with SDG-212610 produced a high acetone recovery of 159%. This indication of positive bias, however, warrants no concern because acetone was not detected in the associated samples.

Unacceptable recoveries were also reported for the 2-butanone (192%,186%) and vinyl acetate (175%,170%) spiked blanks associated

with SDG 480-212651. Data qualifications are not required however, because 2-butanone and vinyl acetate were not detected in the associated samples.

CORRECTNESS AND USABILITY

Data from this group of samples is felt to be technically correct and completely usable in its present form. Data presenting a usable estimation of the conditions at the time of sampling has been flagged "J" or "UJ". Estimated data should be used with caution.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B Baldwin Date: 01 Mar 24
James Baldwin
DATAVAL, Inc.

CORTLAND COUNTY SOIL & WATER CONSERVATION DISTRICT
WEST SIDE LANDFILL
QUALIFIED DATA
SEPTEMBER 2023

	SPIKES CRV1	SPIKE BOD	SPIKES ALKALINITY	SPIKE CYANIDE	SPIKE SULFATE
SDG 480-212610					
MW-5A	0.010J	3.3J			
MW-6A	0.010UJ	3.8J			
MW-6Adis					
MW-6B	0.010UJ	2.0UJ			
SDG 480-212651					
CD-1			138J	0.010J	16.4J
CD-1RA			149J	0.010J	15.4J
MW-1A			126J	0.010UJ	16.1J
MW-1B			96.2J	0.010UJ	8.1J
MW-2A			268J	0.010UJ	
MW-2B			620J	0.010UJ	
MW-3A			73.1J	0.010UJ	
MW-3B			151J	0.014J	9.1J
MW-4A			462J	0.011J	
MW-7A			393J	0.010UJ	
DUP			421J	0.010UJ	

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-212610-1
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 14:45
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	151	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	0.034	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	0.010	0.010	J	mg/L		H F1	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.078	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.7	5.0		mg/L			1	9038
	Total Dissolved Solids	183	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	3.6	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	3.3	2.0	J	mg/L		*-	1	SM 5210B
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-212610-1
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 14:45
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-212610-2
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 13:30
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	184	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	0.012	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.23	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	1.8	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	33.4	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	~~ND~~	UJ 0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.069	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	393	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	121	5.0		mg/L			5	SM 4500 Cl- E
	Biochemical Oxygen Demand	3.8	J 2.0		mg/L		*-	1	SM 5210B
	TOC Result 1	4.0	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.3	1.0		mg/L			1	SM 5310C

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1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-212610-2
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 13:30
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 14:10
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	153	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L		F1	1	335.4
7664-41-7	Ammonia	0.053	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.20	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	~~ND~~	UJ 0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.12	0.050		mg/L			1	353.2
14808-79-8	Sulfate	11.7	5.0		mg/L			1	9038
	Total Dissolved Solids	282	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	70.7	5.0		mg/L			5	SM 4500 Cl- E
	Biochemical Oxygen Demand	~~ND~~	UJ 2.0		mg/L		*-	1	SM 5210B
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 14:10
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 | Lab Sample ID: 480-212651-1

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG ID.:

Matrix: Water | Date Sampled: 09/13/2023 11:00

Reporting Basis: WET | Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result		RL		Units	C	Q	DIL	Method
	Alkalinity, Total	138	J	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	0.010	J	0.010		mg/L		F1	1	335.4
7664-41-7	Ammonia	0.021		0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.36		0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND		10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND		0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND		0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND		0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND		0.050		mg/L			1	353.2
14808-79-8	Sulfate	16.4	J	5.0		mg/L			1	9038
	Total Dissolved Solids	155		10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	1.1		1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND		2.0		mg/L			1	SM 5210B
	TOC Result 1	ND		1.0		mg/L			1	SM 5310C
	TOC Result 2	ND		1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1
Lab Sample ID: 480-212651-1
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 11:00
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-212651-2
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 11:10
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	149	J 20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	0.010	J 0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.057	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	15.4	J 5.0		mg/L			1	9038
	Total Dissolved Solids	164	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	1.4	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-212651-2
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 11:10
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-212651-3
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:30
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	126 J	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	~~ND~~ J3	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.065	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	16.1 J	5.0		mg/L			1	9038
	Total Dissolved Solids	219	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	35.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-212651-3
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:30
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-212651-4
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:25
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result		RL		Units	C	Q	DIL	Method
	Alkalinity, Total	96.2	J	10.0		mg/L			1	310.2
57-12-5	Cyanide, Total	ND	UJ	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.024		0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND		0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND		10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND		0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND		0.010		mg/L			1	7196A
24959-67-9	Bromide	ND		0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND		0.050		mg/L			1	353.2
14808-79-8	Sulfate	8.1	J	5.0		mg/L			1	9038
	Total Dissolved Solids	88.0		10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	5.0		1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND		2.0		mg/L			1	SM 5210B
	TOC Result 1	ND		1.0		mg/L			1	SM 5310C
	TOC Result 2	ND		1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-212651-4
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:25
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

JKR

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-212651-5
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 13:35
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	268	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	7.4	0.10		mg/L			5	350.1
	Total Kjeldahl Nitrogen	6.0	0.40		mg/L			2	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L		F1	1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.17	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	259	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	11.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	4.3	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.5	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-212651-5
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 13:35
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	35.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-212651-6
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 13:45
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	620	100		mg/L			10	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.66	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	1.1	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	0.62	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	683	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	86.5	5.0		mg/L			5	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	3.7	1.0		mg/L			1	SM 5310C
	TOC Result 2	3.6	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-212651-6
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 13:45
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-212651-7
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:40
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	73.1 J	10.0		mg/L			1	310.2
57-12-5	Cyanide, Total	ND UJ	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.060	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.66	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	30.4	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L		F1	1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.090	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	105	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	1.6	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	4.6	2.0		mg/L			1	SM 5210B
	TOC Result 1	7.7	1.0		mg/L			1	SM 5310C
	TOC Result 2	8.4	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-212651-7
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:40
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	50.0	5.00		Color Units			1	SM 2120B

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1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-212651-8
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:45
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	151	J 20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	0.014	J 0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.045	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	9.1	J 5.0		mg/L			1	9038
	Total Dissolved Solids	185	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	21.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-212651-8
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:45
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-212651-9
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:15
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	462	J 50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	0.011	J 0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.026	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.29	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.079	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L		F2 F1	1	9038
	Total Dissolved Solids	464	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	9.9	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	1.4	1.0		mg/L			1	SM 5310C
	TOC Result 2	1.6	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-212651-9
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:15
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-212651-10
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:55
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	393	J 50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	~~ND~~	UJ 0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.048	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.50	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	18.1	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.15	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	406	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	29.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	5.8	1.0		mg/L			1	SM 5310C
	TOC Result 2	5.8	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-212651-10
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:55
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	25.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP
Lab Sample ID: 480-212651-11
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 00:00
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	421 J	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	~~ND~~ UJ	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.12	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.84	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	32.4	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.16	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	410	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	28.5	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
	TOC Result 1	6.1	1.0		mg/L			1	SM 5310C
	TOC Result 2	6.1	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP
Lab Sample ID: 480-212651-11
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 00:00
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	30.0	5.00		Color Units		H	1	SM 2120B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5A
Lab Sample ID: 480-212610-1
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 14:45
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.52	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.64	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.020	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.36	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.2	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.12	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.4	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	9.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.014	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	178	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6A
Lab Sample ID: 480-212610-2
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 13:30
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	17.1	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	0.023	0.015		mg/L			1	6010C
7440-39-3	Barium	0.58	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.030	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	91.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.022	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.026	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.028	0.010		mg/L			1	6010C
7439-89-6	Iron	25.9	0.050		mg/L			1	6010C
7439-92-1	Lead	0.011	0.010		mg/L			1	6010C
7439-95-4	Magnesium	15.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	3.1	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.030	0.010		mg/L			1	6010C
7440-09-7	Potassium	6.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	48.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.023	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.058	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	293	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-6A
Lab Sample ID: 480-212610-2
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 13:30
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.24	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	78.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.3	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.5	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.5	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	47.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6B
Lab Sample ID: 480-212610-3
Lab Name: Eurofins Buffalo
Job No.: 480-212610-1
SDG ID.:
Matrix: Water
Date Sampled: 09/12/2023 14:10
Reporting Basis: WET
Date Received: 09/13/2023 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.26	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.41	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.020	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	56.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.21	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.3	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.094	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.4	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	38.4	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	196	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1
Lab Sample ID: 480-212651-1
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 11:00
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	11.7	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.27	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.018	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0072	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.019	0.010		mg/L			1	6010C
7439-89-6	Iron	16.1	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.3	0.20		mg/L			1	6010C
7439-96-5	Manganese	3.0	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.016	0.010		mg/L			1	6010C
7440-09-7	Potassium	3.9	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.018	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.043	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	178	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1RA
Lab Sample ID: 480-212651-2
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 11:10
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.7	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.17	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	45.3	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	2.2	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.26	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	157	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1A
Lab Sample ID: 480-212651-3
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:30
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.0	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.11	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.021	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	47.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	1.4	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	11.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.7	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.3	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	12.7	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.012	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	165	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1B
Lab Sample ID: 480-212651-4
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:25
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.17	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	25.3	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	6.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.16	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	ND	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	6.7	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	88.0	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2A
Lab Sample ID: 480-212651-5
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 13:35
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.32	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.19	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	62.3	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	2.2	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	12.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	8.4	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	11.4	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	207	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2B
Lab Sample ID: 480-212651-6
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 13:45
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	1.1	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.19	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	172	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.29	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	36.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.9	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	41.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	582	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3A
Lab Sample ID: 480-212651-7
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:40
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.57	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.39	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	30.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.64	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	5.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.39	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	2.9	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	100	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3B
Lab Sample ID: 480-212651-8
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:45
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.18	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.028	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	45.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.094	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.052	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	169	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4A
Lab Sample ID: 480-212651-9
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 12:15
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.46	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	1.1	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.084	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	128	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.25	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	28.3	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.64	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.6	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	17.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.017	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	436	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7A
Lab Sample ID: 480-212651-10
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 14:55
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.0	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.30	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.27	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	105	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	1.7	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	21.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	2.0	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.5	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	48.6	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.15	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	351	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP
Lab Sample ID: 480-212651-11
Lab Name: Eurofins Buffalo
Job No.: 480-212651-1
SDG ID.:
Matrix: Water
Date Sampled: 09/13/2023 00:00
Reporting Basis: WET
Date Received: 09/14/2023 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	2.8	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.32	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.26	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	104	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	3.8	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	20.9	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.5	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	3.1	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	45.4	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.060	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	347	0.50		mg/L			1	SM 2340B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212610-1

SDG No.:

Client Sample ID: MW-5A | Lab Sample ID: 480-212610-1

Matrix: Water | Lab File ID: S1272.d

Analysis Method: 8260C | Date Collected: 09/12/2023 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/14/2023 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND	*+	10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212610-1

SDG No.:

Client Sample ID: MW-5A | Lab Sample ID: 480-212610-1

Matrix: Water | Lab File ID: S1272.d

Analysis Method: 8260C | Date Collected: 09/12/2023 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/14/2023 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
2037-26-5	Toluene-d8 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212610-1

SDG No.:

Client Sample ID: MW-6A | Lab Sample ID: 480-212610-2

Matrix: Water | Lab File ID: S1273.d

Analysis Method: 8260C | Date Collected: 09/12/2023 13:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/14/2023 20:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND	*+	10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212610-1

SDG No.:

Client Sample ID: MW-6A | Lab Sample ID: 480-212610-2

Matrix: Water | Lab File ID: S1273.d

Analysis Method: 8260C | Date Collected: 09/12/2023 13:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/14/2023 20:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-212610-1

SDG No.:

Client Sample ID: MW-6B Lab Sample ID: 480-212610-3

Matrix: Water Lab File ID: S1274.d

Analysis Method: 8260C Date Collected: 09/12/2023 14:10

Sample wt/vol: 5(mL) Date Analyzed: 09/14/2023 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 683500 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND	*+	10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212610-1

SDG No.:

Client Sample ID: MW-6B | Lab Sample ID: 480-212610-3

Matrix: Water | Lab File ID: S1274.d

Analysis Method: 8260C | Date Collected: 09/12/2023 14:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/14/2023 20:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: CD-1 | Lab Sample ID: 480-212651-1

Matrix: Water | Lab File ID: D3833.d

Analysis Method: 8260C | Date Collected: 09/13/2023 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 22:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: CD-1 | Lab Sample ID: 480-212651-1

Matrix: Water | Lab File ID: D3833.d

Analysis Method: 8260C | Date Collected: 09/13/2023 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 22:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
2037-26-5	Toluene-d8 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: CD-1RA | Lab Sample ID: 480-212651-2

Matrix: Water | Lab File ID: D3834.d

Analysis Method: 8260C | Date Collected: 09/13/2023 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 22:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: CD-1RA | Lab Sample ID: 480-212651-2

Matrix: Water | Lab File ID: D3834.d

Analysis Method: 8260C | Date Collected: 09/13/2023 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 22:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-1A | Lab Sample ID: 480-212651-3

Matrix: Water | Lab File ID: D3835.d

Analysis Method: 8260C | Date Collected: 09/13/2023 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 23:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-1A | Lab Sample ID: 480-212651-3

Matrix: Water | Lab File ID: D3835.d

Analysis Method: 8260C | Date Collected: 09/13/2023 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 23:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
2037-26-5	Toluene-d8 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-1B | Lab Sample ID: 480-212651-4

Matrix: Water | Lab File ID: D3836.d

Analysis Method: 8260C | Date Collected: 09/13/2023 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 23:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-1B | Lab Sample ID: 480-212651-4

Matrix: Water | Lab File ID: D3836.d

Analysis Method: 8260C | Date Collected: 09/13/2023 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 23:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
2037-26-5	Toluene-d8 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-2A | Lab Sample ID: 480-212651-5

Matrix: Water | Lab File ID: D3837.d

Analysis Method: 8260C | Date Collected: 09/13/2023 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 23:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	1.1		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	1.9		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-2A | Lab Sample ID: 480-212651-5

Matrix: Water | Lab File ID: D3837.d

Analysis Method: 8260C | Date Collected: 09/13/2023 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 09/15/2023 23:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-2B | Lab Sample ID: 480-212651-6

Matrix: Water | Lab File ID: D3838.d

Analysis Method: 8260C | Date Collected: 09/13/2023 13:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 00:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	4.3		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	44		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-2B | Lab Sample ID: 480-212651-6

Matrix: Water | Lab File ID: D3838.d

Analysis Method: 8260C | Date Collected: 09/13/2023 13:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 00:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	16		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-3A | Lab Sample ID: 480-212651-7

Matrix: Water | Lab File ID: D3839.d

Analysis Method: 8260C | Date Collected: 09/13/2023 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 00:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-3A | Lab Sample ID: 480-212651-7

Matrix: Water | Lab File ID: D3839.d

Analysis Method: 8260C | Date Collected: 09/13/2023 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 00:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
2037-26-5	Toluene-d8 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-3B | Lab Sample ID: 480-212651-8

Matrix: Water | Lab File ID: D3840.d

Analysis Method: 8260C | Date Collected: 09/13/2023 12:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 01:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-3B | Lab Sample ID: 480-212651-8

Matrix: Water | Lab File ID: D3840.d

Analysis Method: 8260C | Date Collected: 09/13/2023 12:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 01:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-4A | Lab Sample ID: 480-212651-9

Matrix: Water | Lab File ID: D3841.d

Analysis Method: 8260C | Date Collected: 09/13/2023 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 01:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-4A | Lab Sample ID: 480-212651-9

Matrix: Water | Lab File ID: D3841.d

Analysis Method: 8260C | Date Collected: 09/13/2023 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 01:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-7A | Lab Sample ID: 480-212651-10

Matrix: Water | Lab File ID: D3842.d

Analysis Method: 8260C | Date Collected: 09/13/2023 14:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 01:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	2.1		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	2.5		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: MW-7A | Lab Sample ID: 480-212651-10

Matrix: Water | Lab File ID: D3842.d

Analysis Method: 8260C | Date Collected: 09/13/2023 14:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2023 01:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683686 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-212651-11

Matrix: Water | Lab File ID: D3871.d

Analysis Method: 8260C | Date Collected: 09/13/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2023 14:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683828 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	2.1		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	2.5		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-212651-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-212651-11

Matrix: Water | Lab File ID: D3871.d

Analysis Method: 8260C | Date Collected: 09/13/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2023 14:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 683828 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND	*+	5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
2037-26-5	Toluene-d8 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120