



Cortland County Soil and Water Conservation District

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www.cortlandswcd.org

SWCD...established to promote the conservation and wise use of our county's natural resources

May 20, 2025

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

Dear Ms. Fitzgerald:

Enclosed is a REVISED 2024 Quarter 2 Environmental Monitoring Report for Cortland County's Towslee Landfill, also known as the Old Cortland County Landfill. We were advised by Barton & Loguidice that we inadvertently included laboratory reports from the Quarter 3 of 2023 monitoring in the original submittal. Our apologies for any confusion.

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

Sincerely,

A handwritten signature in black ink that reads "Patrick Reidy".

Patrick Reidy
Water Quality Specialist

cc: Charles Sudbrink, Cortland County Highway Dept.
Amanda Barber, SWCD/File

REVISED Environmental Monitoring Report Towslee Landfill, Cortland County, NY

Quarter 2 of 2024

*Revised to include the correct
laboratory analytical report in Appendix B*

Prepared for
Cortland County Highway Department

By
Cortland County Soil and Water Conservation District

May 20, 2025



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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.

DEC 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, 3 and 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 Quarter 2 of 2024 (Routine) monitoring activities at the Towslee Landfill, including identification of contraventions of water quality standards, and an evaluation of water quality trends.

Additionally, a Corrective Measures Work Plan (CMWP) has been prepared by Barton & Loguidice, D.P.C. (B&L). The first round of monitoring under this plan was conducted in Quarter 2 of 2024.

The CMWP is intended to evaluate levels of cis-1,2-dichloroethene and vinyl chloride that have been observed in exceedance of NYSDEC groundwater quality standards at Well MW-2B. This well is located directly south, and downgradient, of Towslee Landfill.

Four additional wells are being monitored under the CMWP: two bedrock wells (D-1 and D-2), and two overburden wells (DO-2 and RE-4). All four wells are downgradient of MW-2B. The overburden wells are currently included in monitoring for the closed Pine Tree Landfill.

NOTE: The results for the CMWP are not specifically reported on in this document. They are being evaluated and reported on separately by B&L.

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 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 Sampled
1	-- Sampling not required --	
2	Routine	June 7, 10, 13, 27 of 2024
3	Routine	Not yet conducted
4	Baseline	Not yet conducted

3.2 Monitoring Locations

Groundwater: Thirteen wells are regularly monitored at Towslee Landfill:

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

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 combustible gas 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, Routine parameters were sampled at all locations.

The UDS Level 2 laboratory analytical report, gas data and field data sheets for this quarter can be found in Appendix A. 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 and 2 summarize results for groundwater monitoring wells. Contraventions of NYS standards are highlighted. Quarterly data are compared annually to historic data to evaluate trends.

Section 4. Groundwater Monitoring Results

4.1 Contraventions of Groundwater Quality Standards

Conventional and Field Parameters

pH - The pH water quality standard is contravened if below 6.5, or above 8.5. The pH standard was for all well during this quarter. We believe these low pH values may be due to instrument inaccuracy.

Turbidity - Turbidity exceeded the NYS standard of 5 NTU at both upgradient wells CD-1 (9.5 NTU) and CD-1RA (29.3 NTU), and 5 of the 11 downgradient wells (ranging from 9.5 to 13.2 NTU).

Total Dissolved Solids (TDS) - The TDS standard of 500 mg/L was exceeded at MW-7A (654 mg/L).

Ammonia - The ammonia standard of 2 mg/L was exceeded at MW-2A (4.4 mg/L), consistent with past findings at this well.

Phenolics – The phenolics standard of 0.001 mg/L was exceeded at upgradient well CD-1, at 0.02 mg/L.

No other conventional or field parameters contravened water quality standards during this quarter.

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 (0.75 mg/L) and CD-1RA (4.3 mg/L). It was also exceeded at 4 of the 11 downgradient wells (ranging from 0.36 to 50.2 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 particulate in the unfiltered samples.

Lead - The NYS standard for total iron is 0.015 mg/L. This was exceeded for Well MW-6A, at 0.02 mg/L.

Manganese - The NYS standard for total manganese is 0.3 mg/L and is an aesthetic standard. The manganese standard was exceeded for total manganese at upgradient well CD-1 (0.72 mg/L) and 4 of the 11 downgradient wells, ranging from 2.8 to 7.1 mg/L. The manganese standard has frequently been exceeded in past monitoring, which may be caused in part by particulate in unfiltered samples.

Sodium - The NYS sodium guidelines for people on severely and moderately restricted sodium diets are 20 mg/L and 270 mg/L, respectively. The more restrictive diet guideline was exceeded for total sodium at three downgradient wells, MW-2B (38.5 mg/L), MW-6B (41.0 mg/L) and MW-7A (47.2 mg/L).

No other metals contravened water quality standards during this quarter.

Volatile Organic Compounds (VOCs)

Volatile organic compounds (VOCs) were not analyzed this quarter.

4.2 Water Quality Trends

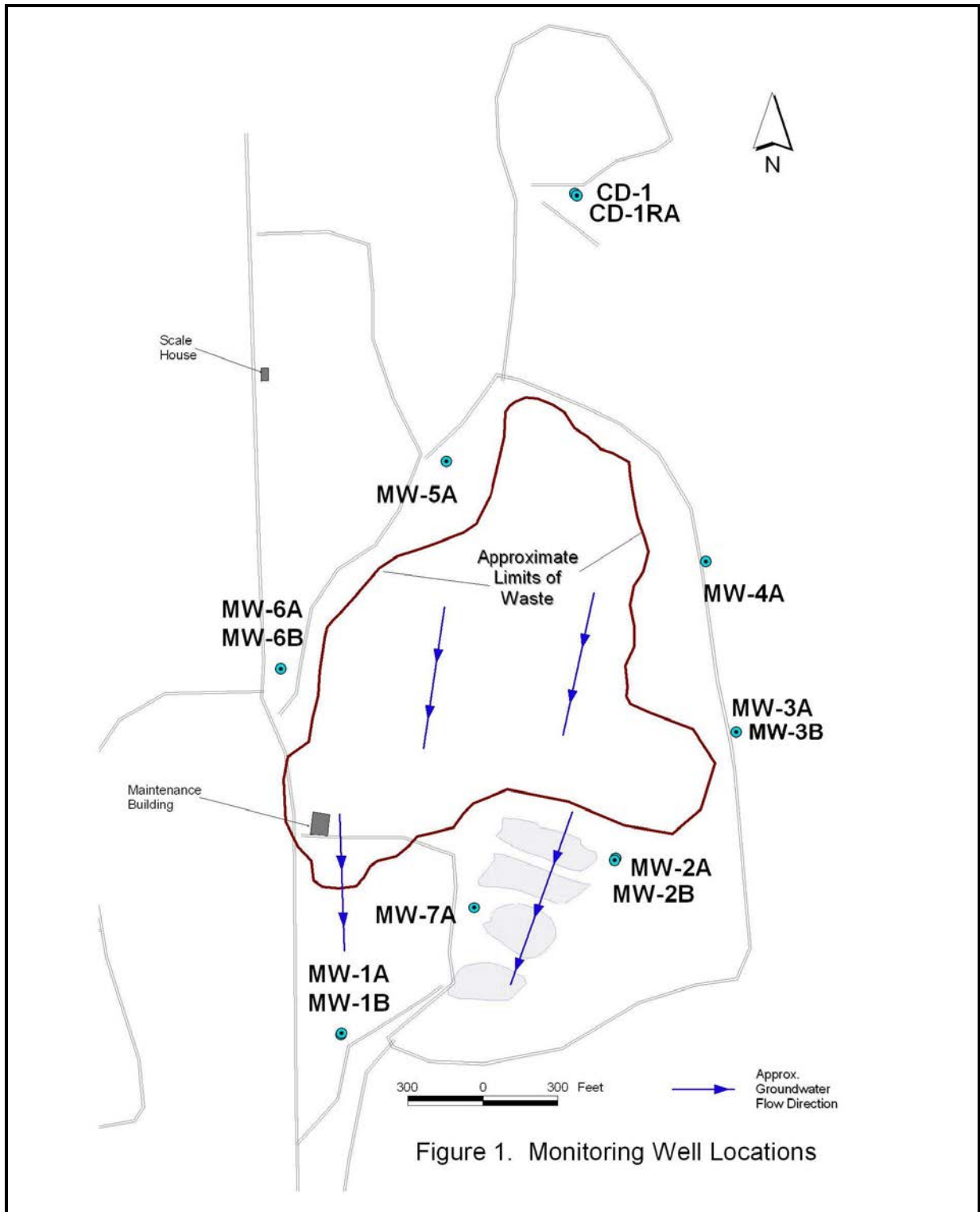
Tabulated trend data are reported annually, during Quarter 4 reporting. However, a review of the Quarter 2 water quality data suggest that overall, groundwater quality surrounding the Towslee Landfill is fairly stable over time.

Section 5. Landfill Gas Testing

Landfill gas was not detected at any of the sampling locations during this quarter.

Section 6. Quality Control

Independent data validation was not required during this quarter. Eurofins TestAmerica conducted standard internal QA/QC on the samples. We believe the analytical data are adequate to characterize Towslee Landfill groundwater quality for this quarter.



**Table1. Contraventions of NYS Water Quality Standards
for Field and Inorganic Parameters
Towslee Landfill - Quarter 2 2024**

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)	--	6.01	6.92	4.26	6.79	3.73	3.33	5.84	10.4	3.64	6.09	7.02	6.25	6.91
Eh	(mV)	--	130	139	124	123	-22	11	139	127	163	133	99	75	116
pH	log	6.5 - 8.5 a	6.1	5.7	5.8	5.6	4.8	4.8	4.1	4.8	5.5	6	5.8	6.3	5.2
Specific Conduct.	(uS/cm)	--	199	229	294	157	413	849	250.5	257	566	233	299	460	364
Color	(Units)	15 a, b	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	(NTU)	5 a	9.5	29.3	2.8	1.3	4.2	3.3	3	4.1	9.5	12	10.1	11.5	13.2
Alkalinity (as CaCO3)	(mg/l)	--	118	143	103	83.4	271	487	151	132	427	160	230	119	403
Hardness (as CaCO3)	(mg/l)	--	134	162	166	92.6	199	562	164	164	418	146	239	190	303
Total Diss. Solids	(mg/l)	500 a	152	178	204	115	224	654	188	190	449	160	238	311	256
Chloride	(mg/l)	250 a, b	< 1	1.8	35.1	5.6	10.9	80.3	3.4	19.5	10.1	4.4	10.7	91.6	28.6
Sulfate	(mg/l)	250 a, b	10.8	13.1	13.4	6.2	< 5	< 5	8.2	9	9.2	11	< 5	12.2	10.5
Bromide	(mg/l)	2 a	< 0.2	< 0.2	0.2	< 0.2	< 0.4	0.81	< 0.2	0.25	< 0.4	< 0.2	< 0.2	< 0.2	< 0.4
NO ₃	(mg/l)	10 a, b	< 0.05	< 0.05	< 0.05	< 0.05	0.097	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.28	0.089	0.47
NH ₃	(mg/l)	2 a	0.19	0.052	0.02	0.066	4.4	0.58	0.024	0.14	0.04	< 0.02	0.13	0.064	0.02
TKN	(mg/l)	--	0.22	< 0.2	< 0.2	< 0.2	3.9	0.67	< 0.2	< 0.2	0.2	< 0.2	2.2	0.23	0.54
COD	(mg/l)	--	< 10	< 10	< 10	< 10	11.3	11.5	< 10	< 10	< 10	< 10	41.9	< 10	15
BOD	(mg/l)	--	< 2	< 2	< 2	< 2	2	< 3	< 2	< 2	< 2	< 2	2.6	< 2	< 3
TOC	(mg/l)	--	< 1	< 1	< 1	< 1	3.6	2	1.2	< 1	1.6	< 1	4.8	< 1	4.4
Phenolics, Total	(mg/l)	0.001 a	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	(mg/l)	0.2 a, b	--	--	--	--	--	--	--	--	--	--	--	--	--

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

b - Part 5 Drinking Water MCL

1.23 indicates contravention of standard.

OB = overburden well

BR = Bedrock well

**Table 2. Contraventions of NYS Water Quality Standards
for Metals (mg/l)
Towslee Landfill - Quarter 2 2024**

Parameter	NYS Water Quality Standard		Total Metals												
			Upgradient		Downgradient										
			OB CD-1	BR CD-1RA	OB MW-1A	BR MW-1B	OB MW-2A	BR MW-2B	BR MW-3A	BR MW-3B	BR MW-4A	BR MW-5A	OB MW-6A	BR MW-6B	OB MW-7A
Aluminum	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	0.003	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	0.025	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	1	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	0.004	b	--	--	--	--	--	--	--	--	--	--	--	--	--
Boron	1	a	--	--	--	--	--	--	--	--	--	--	--	--	--
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
Calcium	--		39.7	46.6	49.2	27.2	60.4	168	49.4	45.1	125	40.6	71.8	56	89.5
Chromium	0.05	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrom, Hex	0.05	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	0.2	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	0.3	a, b	0.75	4.3	0.091	< 0.05	6.4	0.25	0.18	0.16	0.13	0.23	50.2	0.36	0.48
Lead	0.015	b	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Magnesium	--		8.5	11	10.4	6	11.6	34.7	9.9	12.6	25.7	10.8	14.5	12.2	19.3
Manganese	0.3	a, b	0.72	0.18	0.13	0.21	7.1	4.0	0.29	0.033	2.8	0.081	4.4	0.029	0.22
Mercury	0.0007	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	0.1	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	--		1.4	1.6	1.1	0.59	7.3	1.9	1.2	1.1	1.4	0.92	8.3	1.3	1.8
Sodium	20	a, b	3.6	5.3	12.7	6.7	11.2	38.5	6	7.8	17.1	8.7	5.4	41	47.2
Selenium	0.01	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	0.05	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	0.002	b	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	5	b	--	--	--	--	--	--	--	--	--	--	--	--	--

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

b - Part 5 Drinking Water MCL

1.23 indicates contravention of standard.

OB = overburden well

BR = Bedrock well

Appendix A

Field Data Sheets

Sample Log / Field Observations

Landfill Name: Towslee

Field Personnel: Chad Hill

Agency Name: Cortland SWCD

Page 1 of 1

Date: 6/6/2024

Weather: _____

Sample Quarter: 2Q24

Sampling Method: Dedicated Bailer

DTW = Depth to water, DTB = Well depth to bottom, BTOC = Below top of casing, SW = Surface water, UD = Underdrain water, F or S = Floaters or sinkers (LNAPL or DNAPL) present?, GW = Groundwater, LC = Leachate, NA = No data available

Sample ID	Well Diameter (inches)	Sample Matrix	DTW (ft) BTOC	DTB (ft) BTOC	Water Column Thickness (ft)	Purge Volume Goal (gal)	Total Volume Purged (gal)	Sample Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (standard units)	ORP (mV)	F or S y/n?	Comments
CD-1	2	GW	9.00	24.30	15.3	7.7	8.0	12:05 PM	9.5	6.01	6.01	199	6.1	130	N	No prepurge, typically turbid
CD-1RA	2	GW	7.55	50.30	42.8	21.4	22.0	12:15 PM	29.3	6.92	6.92	229	5.7	139	N	Prepurge? PUMP! typically turbid
MW-1A	2	GW	0.00	33.50	33.5	16.8	1.0	2:30 PM	2.8	4.26	4.26	294	5.8	124	N	Artesian, typically turbid
MW-1B	2	GW	0.00	55.50	55.5	27.8	1.0	2:50 PM	1.3	6.79	6.79	157	5.6	123	N	Artesian, typically turbid
MW-2A	2	GW	7.46	12.50	5.0	2.5	5.0	11:40 AM	4.2	3.73	3.73	413	4.8	-22	N	Prepurge, highly turbid
MW-2B	2	GW	10.24	33.00	22.8	11.4	7 *	11:30 AM	3.3	3.33	3.33	849	4.8	11	N	Prepurge
MW-3A	2	GW	8.20	22.00	13.8	6.9	3 *	2:05 PM	3	5.84	5.84	250.5	4.1	139	N	Prepurge
MW-3B	2	GW	15.88	44.00	28.1	14.1	11 *	2:10 PM	4.1	10.4	6.15	257	4.8	127	N	Prepurge
MW-4A	2	GW	8.40	32.40	24.0	12.0	12.0	12:00 PM	9.5	3.64	3.64	566	5.5	163	N	Prepurge, blockage at 22.9'
MW-5A	2	GW	12.22	32.30	20.1	10.0	2.5 *	11:40 AM	12	6.09	6.09	233	6	133	N	Prepurge, blockage at 18.0'
MW-6A	2	GW	12.92	18.60	5.7	2.8	2 *	11:15 AM	10.1	7.02	7.02	299	5.8	99	N	Prepurge, highly turbid
MW-6B	2	GW	14.30	40.30	26.0	13.0	8 *	11:00 AM	11.5	6.25	6.25	460	6.3	75	N	Prepurge
MW-7A	2	GW	6.63	22.00	15.4	7.7	8.0	12:10 PM	13.2	6.91	6.91	364	5.2	116	N	Prepurge, typically turbid
DUPE	2	GW		22.00												

Comments / Observations: * purged dry

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

Initials: _____

Date: _____

Appendix B

Laboratory Analytical Reports

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Towlsee Landfill - Routine Q2 2024
Towslee Landfill - Routine

JOB NUMBER

480-220635-1

Eurofins Buffalo

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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Definitions/Glossary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Cortland Cty Soil & Water Cons District
Project: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Job ID: 480-220635-1

Eurofins Buffalo

Job Narrative 480-220635-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/8/2024 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 3 coolers at receipt time were 2.6°C, 2.8°C and 3.1°C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-715291 recovered outside acceptance criteria, low biased, for Carbon disulfide and Chlorodibromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-715291 recovered outside control limits for the following analytes: Chloroethane and Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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 480-715291. The following sample was affected: TRIP BLANK (480-220635-11).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-715291 recovered above the upper control limit for Vinyl chloride, Chloromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TRIP BLANK (480-220635-11).

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 300.0_28D: The following sample was diluted due to the nature of the sample matrix: MW-4A (480-220635-7). Elevated reporting limits (RLs) are provided.

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

Eurofins Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: CD-1

Lab Sample ID: 480-220635-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	39.7		0.50		mg/L	1		6010C	Total/NA
Iron	0.75		0.050		mg/L	1		6010C	Total/NA
Magnesium	8.5		0.20		mg/L	1		6010C	Total/NA
Manganese	0.72		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.4		0.50		mg/L	1		6010C	Total/NA
Sodium	3.6		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	134		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	118		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.19		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.22		0.20		mg/L	1		351.2	Total/NA
Phenolics, Total Recoverable	0.017		0.010		mg/L	1		420.4	Total/NA
Sulfate	10.8		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	152		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: CD-1RA

Lab Sample ID: 480-220635-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	46.6		0.50		mg/L	1		6010C	Total/NA
Iron	4.3		0.050		mg/L	1		6010C	Total/NA
Magnesium	11.0		0.20		mg/L	1		6010C	Total/NA
Manganese	0.18		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.6		0.50		mg/L	1		6010C	Total/NA
Sodium	5.3		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	162		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	143		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.052		0.020		mg/L	1		350.1	Total/NA
Sulfate	13.1		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	178		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-1A

Lab Sample ID: 480-220635-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	49.2		0.50		mg/L	1		6010C	Total/NA
Iron	0.091		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.4		0.20		mg/L	1		6010C	Total/NA
Manganese	0.13		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.1		0.50		mg/L	1		6010C	Total/NA
Sodium	12.7		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	166		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.20		0.20		mg/L	1		300.0	Total/NA
Alkalinity, Total	103		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.050	F1	0.020		mg/L	1		350.1	Total/NA
Sulfate	13.4		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	204		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	35.1		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-1B

Lab Sample ID: 480-220635-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	27.2		0.50		mg/L	1		6010C	Total/NA
Magnesium	6.0		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-1B (Continued)

Lab Sample ID: 480-220635-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.21		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.59		0.50		mg/L	1		6010C	Total/NA
Sodium	6.7		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	92.6		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	83.4		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.066		0.020		mg/L	1		350.1	Total/NA
Sulfate	6.2		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	115		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	5.6		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-3A

Lab Sample ID: 480-220635-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	49.4		0.50		mg/L	1		6010C	Total/NA
Iron	0.18		0.050		mg/L	1		6010C	Total/NA
Magnesium	9.9		0.20		mg/L	1		6010C	Total/NA
Manganese	0.29		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	6.0		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	164		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	151		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.024		0.020		mg/L	1		350.1	Total/NA
Sulfate	8.2		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	188		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	3.4		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	1.2		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.3		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3B

Lab Sample ID: 480-220635-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	45.1		0.50		mg/L	1		6010C	Total/NA
Iron	0.16		0.050		mg/L	1		6010C	Total/NA
Magnesium	12.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.033		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.1		0.50		mg/L	1		6010C	Total/NA
Sodium	7.8		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	164		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.25		0.20		mg/L	1		300.0	Total/NA
Alkalinity, Total	132		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.14		0.020		mg/L	1		350.1	Total/NA
Sulfate	9.0		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	190		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	19.5		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-4A

Lab Sample ID: 480-220635-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	125		0.50		mg/L	1		6010C	Total/NA
Iron	0.13		0.050		mg/L	1		6010C	Total/NA
Magnesium	25.7		0.20		mg/L	1		6010C	Total/NA
Manganese	2.8		0.0030		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-4A (Continued)

Lab Sample ID: 480-220635-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.4		0.50		mg/L	1		6010C	Total/NA
Sodium	17.1		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	418		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	427		230		mg/L	23		310.2	Total/NA
Ammonia	0.040		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.20		0.20		mg/L	1		351.2	Total/NA
Sulfate	9.2		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	449		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	10.1		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	1.6		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.5		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-5A

Lab Sample ID: 480-220635-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	40.6		0.50		mg/L	1		6010C	Total/NA
Iron	0.23		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.8		0.20		mg/L	1		6010C	Total/NA
Manganese	0.081		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.92		0.50		mg/L	1		6010C	Total/NA
Sodium	8.7		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	146		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	160		50.0		mg/L	5		310.2	Total/NA
Sulfate	11.0		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	160		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	4.4		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-6A

Lab Sample ID: 480-220635-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	71.8		0.50		mg/L	1		6010C	Total/NA
Iron	50.2		0.050		mg/L	1		6010C	Total/NA
Lead	0.020		0.010		mg/L	1		6010C	Total/NA
Magnesium	14.5		0.20		mg/L	1		6010C	Total/NA
Manganese	4.4		0.0030		mg/L	1		6010C	Total/NA
Potassium	8.3		0.50		mg/L	1		6010C	Total/NA
Sodium	5.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	239		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	230		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.13		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	2.2		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.28		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	41.9		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	238		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	10.7		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	2.6		2.0		mg/L	1		SM 5210B	Total/NA
TOC Result 1	4.8		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	5.1		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-6B

Lab Sample ID: 480-220635-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	56.0		0.50		mg/L	1		6010C	Total/NA
Iron	0.36		0.050		mg/L	1		6010C	Total/NA
Magnesium	12.2		0.20		mg/L	1		6010C	Total/NA
Manganese	0.029		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.3		0.50		mg/L	1		6010C	Total/NA
Sodium	41.0		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	190		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	119		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.064		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.23		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.089		0.050		mg/L	1		353.2	Total/NA
Sulfate	12.2		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	311		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	91.6		5.0		mg/L	5		SM 4500 Cl- E	Total/NA
TOC Result 2	1.0		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-220635-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: CD-1

Lab Sample ID: 480-220635-1

Date Collected: 06/07/24 12:05

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 17:48	1
Calcium	39.7		0.50		mg/L		06/11/24 12:34	06/11/24 17:48	1
Iron	0.75		0.050		mg/L		06/11/24 12:34	06/11/24 17:48	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 17:48	1
Magnesium	8.5		0.20		mg/L		06/11/24 12:34	06/11/24 17:48	1
Manganese	0.72		0.0030		mg/L		06/11/24 12:34	06/11/24 17:48	1
Potassium	1.4		0.50		mg/L		06/11/24 12:34	06/11/24 17:48	1
Sodium	3.6		1.0		mg/L		06/11/24 12:34	06/11/24 17:48	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	134		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/12/24 02:55	1
Alkalinity, Total (EPA 310.2)	118		50.0		mg/L			06/13/24 11:40	5
Ammonia (EPA 350.1)	0.19		0.020		mg/L			06/11/24 12:47	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.22		0.20		mg/L		06/10/24 13:20	06/11/24 11:15	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:40	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 15:47	1
Phenolics, Total Recoverable (EPA 420.4)	0.017		0.010		mg/L			06/13/24 02:32	1
Sulfate (SW846 9038)	10.8		5.0		mg/L			06/11/24 12:53	1
Total Dissolved Solids (SM 2540C)	152		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	ND		1.0		mg/L			06/11/24 10:13	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/11/24 22:33	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			06/11/24 22:33	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: CD-1RA

Lab Sample ID: 480-220635-2

Date Collected: 06/07/24 12:15

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:03	1
Calcium	46.6		0.50		mg/L		06/11/24 12:34	06/11/24 18:03	1
Iron	4.3		0.050		mg/L		06/11/24 12:34	06/11/24 18:03	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:03	1
Magnesium	11.0		0.20		mg/L		06/11/24 12:34	06/11/24 18:03	1
Manganese	0.18		0.0030		mg/L		06/11/24 12:34	06/11/24 18:03	1
Potassium	1.6		0.50		mg/L		06/11/24 12:34	06/11/24 18:03	1
Sodium	5.3		1.0		mg/L		06/11/24 12:34	06/11/24 18:03	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	162		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/12/24 03:13	1
Alkalinity, Total (EPA 310.2)	143		50.0		mg/L			06/13/24 11:48	5
Ammonia (EPA 350.1)	0.052		0.020		mg/L			06/11/24 12:48	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		06/10/24 13:20	06/11/24 11:16	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:44	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 15:50	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/13/24 02:36	1
Sulfate (SW846 9038)	13.1		5.0		mg/L			06/11/24 12:53	1
Total Dissolved Solids (SM 2540C)	178		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	1.8		1.0		mg/L			06/11/24 10:14	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/12/24 02:42	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			06/12/24 02:42	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-1A

Lab Sample ID: 480-220635-3

Date Collected: 06/07/24 14:30

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:05	1
Calcium	49.2		0.50		mg/L		06/11/24 12:34	06/11/24 18:05	1
Iron	0.091		0.050		mg/L		06/11/24 12:34	06/11/24 18:05	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:05	1
Magnesium	10.4		0.20		mg/L		06/11/24 12:34	06/11/24 18:05	1
Manganese	0.13		0.0030		mg/L		06/11/24 12:34	06/11/24 18:05	1
Potassium	1.1		0.50		mg/L		06/11/24 12:34	06/11/24 18:05	1
Sodium	12.7		1.0		mg/L		06/11/24 12:34	06/11/24 18:05	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	166		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	0.20		0.20		mg/L			06/12/24 03:30	1
Alkalinity, Total (EPA 310.2)	103		50.0		mg/L			06/13/24 11:50	5
Ammonia (EPA 350.1)	0.050	F1	0.020		mg/L			06/11/24 12:53	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		06/10/24 13:20	06/11/24 11:17	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:45	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:34	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/13/24 02:40	1
Sulfate (SW846 9038)	13.4		5.0		mg/L			06/11/24 12:53	1
Total Dissolved Solids (SM 2540C)	204		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	35.1		1.0		mg/L			06/11/24 10:14	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/12/24 03:10	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			06/12/24 03:10	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-1B

Lab Sample ID: 480-220635-4

Date Collected: 06/07/24 14:50

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:07	1
Calcium	27.2		0.50		mg/L		06/11/24 12:34	06/11/24 18:07	1
Iron	ND		0.050		mg/L		06/11/24 12:34	06/11/24 18:07	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:07	1
Magnesium	6.0		0.20		mg/L		06/11/24 12:34	06/11/24 18:07	1
Manganese	0.21		0.0030		mg/L		06/11/24 12:34	06/11/24 18:07	1
Potassium	0.59		0.50		mg/L		06/11/24 12:34	06/11/24 18:07	1
Sodium	6.7		1.0		mg/L		06/11/24 12:34	06/11/24 18:07	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	92.6		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/12/24 03:48	1
Alkalinity, Total (EPA 310.2)	83.4		50.0		mg/L			06/13/24 11:51	5
Ammonia (EPA 350.1)	0.066		0.020		mg/L			06/11/24 12:56	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND	F1	0.20		mg/L		06/10/24 13:20	06/11/24 11:19	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:47	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:39	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/13/24 02:43	1
Sulfate (SW846 9038)	6.2		5.0		mg/L			06/11/24 12:55	1
Total Dissolved Solids (SM 2540C)	115		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	5.6		1.0		mg/L			06/11/24 10:14	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/12/24 03:38	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			06/12/24 03:38	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-3A

Date Collected: 06/07/24 14:05

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-5

Matrix: Water

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:09	1
Calcium	49.4		0.50		mg/L		06/11/24 12:34	06/11/24 18:09	1
Iron	0.18		0.050		mg/L		06/11/24 12:34	06/11/24 18:09	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:09	1
Magnesium	9.9		0.20		mg/L		06/11/24 12:34	06/11/24 18:09	1
Manganese	0.29		0.0030		mg/L		06/11/24 12:34	06/11/24 18:09	1
Potassium	1.2		0.50		mg/L		06/11/24 12:34	06/11/24 18:09	1
Sodium	6.0		1.0		mg/L		06/11/24 12:34	06/11/24 18:09	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	164		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/12/24 04:06	1
Alkalinity, Total (EPA 310.2)	151		50.0		mg/L			06/13/24 11:52	5
Ammonia (EPA 350.1)	0.024		0.020		mg/L			06/11/24 12:57	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		06/10/24 13:20	06/11/24 11:22	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:48	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:25	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/13/24 02:47	1
Sulfate (SW846 9038)	8.2		5.0		mg/L			06/11/24 12:56	1
Total Dissolved Solids (SM 2540C)	188		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	3.4		1.0		mg/L			06/11/24 10:34	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	1.2		1.0		mg/L			06/12/24 04:06	1
TOC Result 2 (SM 5310C)	1.3		1.0		mg/L			06/12/24 04:06	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-3B

Lab Sample ID: 480-220635-6

Date Collected: 06/07/24 14:10

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:11	1
Calcium	45.1		0.50		mg/L		06/11/24 12:34	06/11/24 18:11	1
Iron	0.16		0.050		mg/L		06/11/24 12:34	06/11/24 18:11	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:11	1
Magnesium	12.6		0.20		mg/L		06/11/24 12:34	06/11/24 18:11	1
Manganese	0.033		0.0030		mg/L		06/11/24 12:34	06/11/24 18:11	1
Potassium	1.1		0.50		mg/L		06/11/24 12:34	06/11/24 18:11	1
Sodium	7.8		1.0		mg/L		06/11/24 12:34	06/11/24 18:11	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	164		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	0.25		0.20		mg/L			06/12/24 04:24	1
Alkalinity, Total (EPA 310.2)	132		50.0		mg/L			06/13/24 11:52	5
Ammonia (EPA 350.1)	0.14		0.020		mg/L			06/11/24 12:59	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		06/10/24 13:20	06/11/24 11:26	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:50	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:22	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/13/24 02:51	1
Sulfate (SW846 9038)	9.0		5.0		mg/L			06/11/24 12:57	1
Total Dissolved Solids (SM 2540C)	190		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	19.5		1.0		mg/L			06/11/24 09:22	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/12/24 07:20	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			06/12/24 07:20	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-4A

Lab Sample ID: 480-220635-7

Date Collected: 06/07/24 12:00

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:13	1
Calcium	125		0.50		mg/L		06/11/24 12:34	06/11/24 18:13	1
Iron	0.13		0.050		mg/L		06/11/24 12:34	06/11/24 18:13	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:13	1
Magnesium	25.7		0.20		mg/L		06/11/24 12:34	06/11/24 18:13	1
Manganese	2.8		0.0030		mg/L		06/11/24 12:34	06/11/24 18:13	1
Potassium	1.4		0.50		mg/L		06/11/24 12:34	06/11/24 18:13	1
Sodium	17.1		1.0		mg/L		06/11/24 12:34	06/11/24 18:13	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	418		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.40		mg/L			06/12/24 04:42	2
Alkalinity, Total (EPA 310.2)	427		230		mg/L			06/13/24 14:15	23
Ammonia (EPA 350.1)	0.040		0.020		mg/L			06/11/24 13:00	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.20		0.20		mg/L		06/10/24 13:20	06/11/24 11:27	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:54	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:19	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/13/24 02:54	1
Sulfate (SW846 9038)	9.2		5.0		mg/L			06/11/24 12:57	1
Total Dissolved Solids (SM 2540C)	449		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	10.1		1.0		mg/L			06/11/24 09:23	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	1.6		1.0		mg/L			06/12/24 07:48	1
TOC Result 2 (SM 5310C)	1.5		1.0		mg/L			06/12/24 07:48	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-5A

Lab Sample ID: 480-220635-8

Date Collected: 06/07/24 11:40

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:14	1
Calcium	40.6		0.50		mg/L		06/11/24 12:34	06/11/24 18:14	1
Iron	0.23		0.050		mg/L		06/11/24 12:34	06/11/24 18:14	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:14	1
Magnesium	10.8		0.20		mg/L		06/11/24 12:34	06/11/24 18:14	1
Manganese	0.081		0.0030		mg/L		06/11/24 12:34	06/11/24 18:14	1
Potassium	0.92		0.50		mg/L		06/11/24 12:34	06/11/24 18:14	1
Sodium	8.7		1.0		mg/L		06/11/24 12:34	06/11/24 18:14	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	146		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/11/24 16:14	1
Alkalinity, Total (EPA 310.2)	160		50.0		mg/L			06/13/24 13:23	5
Ammonia (EPA 350.1)	ND		0.020		mg/L			06/11/24 13:01	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.20		mg/L		06/10/24 13:20	06/11/24 11:29	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/08/24 12:56	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:16	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/14/24 02:14	1
Sulfate (SW846 9038)	11.0		5.0		mg/L			06/11/24 12:58	1
Total Dissolved Solids (SM 2540C)	160		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	4.4		1.0		mg/L			06/11/24 09:23	1
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/12/24 08:16	1
TOC Result 2 (SM 5310C)	ND		1.0		mg/L			06/12/24 08:16	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-6A

Lab Sample ID: 480-220635-9

Date Collected: 06/07/24 11:15

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:22	1
Calcium	71.8		0.50		mg/L		06/11/24 12:34	06/11/24 18:22	1
Iron	50.2		0.050		mg/L		06/11/24 12:34	06/11/24 18:22	1
Lead	0.020		0.010		mg/L		06/11/24 12:34	06/11/24 18:22	1
Magnesium	14.5		0.20		mg/L		06/11/24 12:34	06/11/24 18:22	1
Manganese	4.4		0.0030		mg/L		06/11/24 12:34	06/11/24 18:22	1
Potassium	8.3		0.50		mg/L		06/11/24 12:34	06/11/24 18:22	1
Sodium	5.4		1.0		mg/L		06/11/24 12:34	06/11/24 18:22	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	239		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/11/24 16:29	1
Alkalinity, Total (EPA 310.2)	230		50.0		mg/L			06/13/24 13:23	5
Ammonia (EPA 350.1)	0.13		0.020		mg/L			06/11/24 13:04	1
Total Kjeldahl Nitrogen (EPA 351.2)	2.2		0.20		mg/L		06/10/24 13:20	06/11/24 11:30	1
Nitrate as N (EPA 353.2)	0.28		0.050		mg/L			06/08/24 12:58	1
Chemical Oxygen Demand (EPA 410.4)	41.9		10.0		mg/L			06/13/24 16:13	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/14/24 02:51	1
Sulfate (SW846 9038)	ND		5.0		mg/L			06/11/24 12:58	1
Total Dissolved Solids (SM 2540C)	238		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	10.7		1.0		mg/L			06/11/24 09:23	1
Biochemical Oxygen Demand (SM 5210B)	2.6		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	4.8		1.0		mg/L			06/12/24 08:44	1
TOC Result 2 (SM 5310C)	5.1		1.0		mg/L			06/12/24 08:44	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-6B

Lab Sample ID: 480-220635-10

Date Collected: 06/07/24 11:00

Matrix: Water

Date Received: 06/08/24 10:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 18:24	1
Calcium	56.0		0.50		mg/L		06/11/24 12:34	06/11/24 18:24	1
Iron	0.36		0.050		mg/L		06/11/24 12:34	06/11/24 18:24	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 18:24	1
Magnesium	12.2		0.20		mg/L		06/11/24 12:34	06/11/24 18:24	1
Manganese	0.029		0.0030		mg/L		06/11/24 12:34	06/11/24 18:24	1
Potassium	1.3		0.50		mg/L		06/11/24 12:34	06/11/24 18:24	1
Sodium	41.0		1.0		mg/L		06/11/24 12:34	06/11/24 18:24	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	190		0.50		mg/L			06/12/24 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.20		mg/L			06/11/24 16:43	1
Alkalinity, Total (EPA 310.2)	119		50.0		mg/L			06/13/24 13:23	5
Ammonia (EPA 350.1)	0.064		0.020		mg/L			06/11/24 13:06	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.23		0.20		mg/L		06/10/24 13:20	06/11/24 11:31	1
Nitrate as N (EPA 353.2)	0.089		0.050		mg/L			06/08/24 12:59	1
Chemical Oxygen Demand (EPA 410.4)	ND		10.0		mg/L			06/13/24 16:06	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/14/24 02:55	1
Sulfate (SW846 9038)	12.2		5.0		mg/L			06/11/24 13:10	1
Total Dissolved Solids (SM 2540C)	311		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	91.6		5.0		mg/L			06/11/24 10:43	5
Biochemical Oxygen Demand (SM 5210B)	ND		2.0		mg/L			06/08/24 12:51	1
TOC Result 1 (SM 5310C)	ND		1.0		mg/L			06/12/24 09:12	1
TOC Result 2 (SM 5310C)	1.0		1.0		mg/L			06/12/24 09:12	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-220635-11

Date Collected: 06/07/24 00:00

Matrix: Water

Date Received: 06/08/24 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			06/12/24 14:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/24 14:38	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/24 14:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/24 14:38	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/24 14:38	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/24 14:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/24 14:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/24 14:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/24 14:38	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/24 14:38	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/24 14:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/24 14:38	1
2-Butanone (MEK)	ND	+	10		ug/L			06/12/24 14:38	1
2-Hexanone	ND		5.0		ug/L			06/12/24 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/24 14:38	1
Acetone	ND		10		ug/L			06/12/24 14:38	1
Acrylonitrile	ND		5.0		ug/L			06/12/24 14:38	1
Benzene	ND		1.0		ug/L			06/12/24 14:38	1
Chlorobromomethane	ND		1.0		ug/L			06/12/24 14:38	1
Bromodichloromethane	ND		1.0		ug/L			06/12/24 14:38	1
Bromoform	ND		1.0		ug/L			06/12/24 14:38	1
Bromomethane	ND		1.0		ug/L			06/12/24 14:38	1
Carbon disulfide	ND		1.0		ug/L			06/12/24 14:38	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/24 14:38	1
Chlorobenzene	ND		1.0		ug/L			06/12/24 14:38	1
Dibromochloromethane	ND		1.0		ug/L			06/12/24 14:38	1
Chloroethane	ND	+	1.0		ug/L			06/12/24 14:38	1
Chloroform	ND		1.0		ug/L			06/12/24 14:38	1
Chloromethane	ND	+	1.0		ug/L			06/12/24 14:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/24 14:38	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/24 14:38	1
Dibromomethane	ND		1.0		ug/L			06/12/24 14:38	1
Ethylbenzene	ND		1.0		ug/L			06/12/24 14:38	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/24 14:38	1
Iodomethane	ND		1.0		ug/L			06/12/24 14:38	1
Methylene Chloride	ND		1.0		ug/L			06/12/24 14:38	1
Styrene	ND		1.0		ug/L			06/12/24 14:38	1
Tetrachloroethene	ND		1.0		ug/L			06/12/24 14:38	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/24 14:38	1
Trichloroethene	ND		1.0		ug/L			06/12/24 14:38	1
Toluene	ND		1.0		ug/L			06/12/24 14:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/24 14:38	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/24 14:38	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/24 14:38	1
Vinyl acetate	ND	+	5.0		ug/L			06/12/24 14:38	1
Vinyl chloride	ND		1.0		ug/L			06/12/24 14:38	1
Xylenes, Total	ND		2.0		ug/L			06/12/24 14:38	1
m,p-Xylene	ND		2.0		ug/L			06/12/24 14:38	1
o-Xylene	ND		1.0		ug/L			06/12/24 14:38	1

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Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-220635-11

Date Collected: 06/07/24 00:00

Matrix: Water

Date Received: 06/08/24 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		06/12/24 14:38	1
Toluene-d8 (Surr)	97		80 - 120		06/12/24 14:38	1
4-Bromofluorobenzene (Surr)	100		73 - 120		06/12/24 14:38	1

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
		(77-120)	(80-120)	(73-120)
Lab Sample ID	Client Sample ID			
480-220635-11	TRIP BLANK	104	97	100
LCS 480-715291/6	Lab Control Sample	105	102	102
MB 480-715291/8	Method Blank	103	98	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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

Lab Sample ID: MB 480-715291/8

Matrix: Water

Analysis Batch: 715291

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			06/12/24 13:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/24 13:37	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/24 13:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/24 13:37	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/24 13:37	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/24 13:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/24 13:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/24 13:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/24 13:37	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/24 13:37	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/24 13:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/24 13:37	1
2-Butanone (MEK)	ND		10		ug/L			06/12/24 13:37	1
2-Hexanone	ND		5.0		ug/L			06/12/24 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/24 13:37	1
Acetone	ND		10		ug/L			06/12/24 13:37	1
Acrylonitrile	ND		5.0		ug/L			06/12/24 13:37	1
Benzene	ND		1.0		ug/L			06/12/24 13:37	1
Chlorobromomethane	ND		1.0		ug/L			06/12/24 13:37	1
Bromodichloromethane	ND		1.0		ug/L			06/12/24 13:37	1
Bromoform	ND		1.0		ug/L			06/12/24 13:37	1
Bromomethane	ND		1.0		ug/L			06/12/24 13:37	1
Carbon disulfide	ND		1.0		ug/L			06/12/24 13:37	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/24 13:37	1
Chlorobenzene	ND		1.0		ug/L			06/12/24 13:37	1
Dibromochloromethane	ND		1.0		ug/L			06/12/24 13:37	1
Chloroethane	ND		1.0		ug/L			06/12/24 13:37	1
Chloroform	ND		1.0		ug/L			06/12/24 13:37	1
Chloromethane	ND		1.0		ug/L			06/12/24 13:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/24 13:37	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/24 13:37	1
Dibromomethane	ND		1.0		ug/L			06/12/24 13:37	1
Ethylbenzene	ND		1.0		ug/L			06/12/24 13:37	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/24 13:37	1
Iodomethane	ND		1.0		ug/L			06/12/24 13:37	1
Methylene Chloride	ND		1.0		ug/L			06/12/24 13:37	1
Styrene	ND		1.0		ug/L			06/12/24 13:37	1
Tetrachloroethene	ND		1.0		ug/L			06/12/24 13:37	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/24 13:37	1
Trichloroethene	ND		1.0		ug/L			06/12/24 13:37	1
Toluene	ND		1.0		ug/L			06/12/24 13:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/24 13:37	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/24 13:37	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/24 13:37	1
Vinyl acetate	ND		5.0		ug/L			06/12/24 13:37	1
Vinyl chloride	ND		1.0		ug/L			06/12/24 13:37	1
Xylenes, Total	ND		2.0		ug/L			06/12/24 13:37	1
m,p-Xylene	ND		2.0		ug/L			06/12/24 13:37	1

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QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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

Lab Sample ID: MB 480-715291/8

Matrix: Water

Analysis Batch: 715291

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			06/12/24 13:37	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					06/12/24 13:37	1
Toluene-d8 (Surr)	98		80 - 120					06/12/24 13:37	1
4-Bromofluorobenzene (Surr)	102		73 - 120					06/12/24 13:37	1

Lab Sample ID: LCS 480-715291/6

Matrix: Water

Analysis Batch: 715291

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	26.2		ug/L		105	80 - 120
1,1,1-Trichloroethane	25.0	28.8		ug/L		115	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.9		ug/L		111	76 - 120
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	29.6		ug/L		119	77 - 120
1,1-Dichloroethene	25.0	29.7		ug/L		119	66 - 127
1,2,3-Trichloropropane	25.0	28.1		ug/L		112	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	56 - 134
1,2-Dichlorobenzene	25.0	28.1		ug/L		113	80 - 124
1,2-Dichloroethane	25.0	27.4		ug/L		110	75 - 120
1,2-Dichloropropane	25.0	28.9		ug/L		116	76 - 120
1,4-Dichlorobenzene	25.0	28.0		ug/L		112	80 - 120
2-Butanone (MEK)	125	212	*+	ug/L		170	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	71 - 125
Acetone	125	132		ug/L		105	56 - 142
Acrylonitrile	250	258		ug/L		103	63 - 125
Benzene	25.0	29.0		ug/L		116	71 - 124
Chlorobromomethane	25.0	28.6		ug/L		114	72 - 130
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Bromoform	25.0	21.3		ug/L		85	61 - 132
Bromomethane	25.0	30.9		ug/L		124	55 - 144
Carbon disulfide	25.0	24.7		ug/L		99	59 - 134
Carbon tetrachloride	25.0	27.6		ug/L		110	72 - 134
Chlorobenzene	25.0	27.2		ug/L		109	80 - 120
Dibromochloromethane	25.0	24.5		ug/L		98	75 - 125
Chloroethane	25.0	35.8	*+	ug/L		143	69 - 136
Chloroform	25.0	27.2		ug/L		109	73 - 127
Chloromethane	25.0	35.2	*+	ug/L		141	68 - 124
cis-1,2-Dichloroethene	25.0	29.2		ug/L		117	74 - 124
cis-1,3-Dichloropropene	25.0	29.5		ug/L		118	74 - 124
Dibromomethane	25.0	28.0		ug/L		112	76 - 127
Ethylbenzene	25.0	27.7		ug/L		111	77 - 123
1,2-Dibromoethane	25.0	26.5		ug/L		106	77 - 120
Iodomethane	25.0	29.5		ug/L		118	78 - 123
Methylene Chloride	25.0	29.0		ug/L		116	75 - 124

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QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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

Lab Sample ID: LCS 480-715291/6

Matrix: Water

Analysis Batch: 715291

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	27.3		ug/L		109	80 - 120
Tetrachloroethene	25.0	30.5		ug/L		122	74 - 122
Trichlorofluoromethane	25.0	31.4		ug/L		126	62 - 150
Trichloroethene	25.0	30.7		ug/L		123	74 - 123
Toluene	25.0	27.5		ug/L		110	80 - 122
trans-1,2-Dichloroethene	25.0	29.4		ug/L		118	73 - 127
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.3		ug/L		93	41 - 131
Vinyl acetate	50.0	76.4	*+	ug/L		153	50 - 144
Vinyl chloride	25.0	32.3		ug/L		129	65 - 133
m,p-Xylene	25.0	27.8		ug/L		111	76 - 122
o-Xylene	25.0	27.4		ug/L		110	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-715078/1-A

Matrix: Water

Analysis Batch: 715274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 715078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/11/24 12:34	06/11/24 17:44	1
Calcium	ND		0.50		mg/L		06/11/24 12:34	06/11/24 17:44	1
Iron	ND		0.050		mg/L		06/11/24 12:34	06/11/24 17:44	1
Lead	ND		0.010		mg/L		06/11/24 12:34	06/11/24 17:44	1
Magnesium	ND		0.20		mg/L		06/11/24 12:34	06/11/24 17:44	1
Manganese	ND		0.0030		mg/L		06/11/24 12:34	06/11/24 17:44	1
Potassium	ND		0.50		mg/L		06/11/24 12:34	06/11/24 17:44	1
Sodium	ND		1.0		mg/L		06/11/24 12:34	06/11/24 17:44	1

Lab Sample ID: LCS 480-715078/2-A

Matrix: Water

Analysis Batch: 715274

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 715078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.500	0.505		mg/L		101	80 - 120
Calcium	25.0	25.98		mg/L		104	80 - 120
Iron	5.10	5.58		mg/L		109	80 - 120
Lead	0.500	0.522		mg/L		104	80 - 120
Magnesium	25.0	24.83		mg/L		99	80 - 120
Manganese	0.500	0.506		mg/L		101	80 - 120
Potassium	25.0	25.70		mg/L		103	80 - 120
Sodium	25.0	25.73		mg/L		103	80 - 120

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QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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

Lab Sample ID: 480-220635-1 MS

Matrix: Water

Analysis Batch: 715274

Client Sample ID: CD-1

Prep Type: Total/NA

Prep Batch: 715078

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	ND		0.500	0.514		mg/L		103	75 - 125
Calcium	39.7		25.0	65.41		mg/L		103	75 - 125
Iron	0.75		5.10	6.48		mg/L		112	75 - 125
Lead	ND		0.500	0.527		mg/L		105	75 - 125
Magnesium	8.5		25.0	33.79		mg/L		101	75 - 125
Manganese	0.72		0.500	1.29		mg/L		113	75 - 125
Potassium	1.4		25.0	27.03		mg/L		102	75 - 125
Sodium	3.6		25.0	29.49		mg/L		104	75 - 125

Lab Sample ID: 480-220635-1 MSD

Matrix: Water

Analysis Batch: 715274

Client Sample ID: CD-1

Prep Type: Total/NA

Prep Batch: 715078

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	ND		0.500	0.511		mg/L		102	75 - 125	1	20
Calcium	39.7		25.0	65.09		mg/L		102	75 - 125	0	20
Iron	0.75		5.10	6.45		mg/L		112	75 - 125	1	20
Lead	ND		0.500	0.525		mg/L		104	75 - 125	1	20
Magnesium	8.5		25.0	33.56		mg/L		100	75 - 125	1	20
Manganese	0.72		0.500	1.30		mg/L		117	75 - 125	1	20
Potassium	1.4		25.0	26.83		mg/L		102	75 - 125	1	20
Sodium	3.6		25.0	29.37		mg/L		103	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-715205/28

Matrix: Water

Analysis Batch: 715205

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			06/11/24 22:43	1

Lab Sample ID: MB 480-715205/4

Matrix: Water

Analysis Batch: 715205

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			06/11/24 15:31	1

Lab Sample ID: LCS 480-715205/29

Matrix: Water

Analysis Batch: 715205

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	5.16		mg/L		103	90 - 110

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QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-715205/5

Matrix: Water

Analysis Batch: 715205

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	5.11		mg/L		102	90 - 110

Lab Sample ID: 480-220635-7 MS

Matrix: Water

Analysis Batch: 715205

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
Bromide	ND		10.0	10.28		mg/L		99	80 - 120

Lab Sample ID: MB 480-715209/4

Matrix: Water

Analysis Batch: 715209

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			06/11/24 15:44	1

Lab Sample ID: LCS 480-715209/5

Matrix: Water

Analysis Batch: 715209

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	5.09		mg/L		102	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-715524/129

Matrix: Water

Analysis Batch: 715524

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			06/13/24 10:55	1

Lab Sample ID: MB 480-715524/136

Matrix: Water

Analysis Batch: 715524

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			06/13/24 11:15	1

Lab Sample ID: MB 480-715524/144

Matrix: Water

Analysis Batch: 715524

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			06/13/24 11:41	1

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-715524/151

Matrix: Water

Analysis Batch: 715524

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			06/13/24 11:49	1

Lab Sample ID: MB 480-715524/213

Matrix: Water

Analysis Batch: 715524

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			06/13/24 13:10	1

Lab Sample ID: MB 480-715524/218

Matrix: Water

Analysis Batch: 715524

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			06/13/24 13:14	1

Lab Sample ID: MB 480-715524/229

Matrix: Water

Analysis Batch: 715524

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			06/13/24 13:26	1

Lab Sample ID: MB 480-715524/238

Matrix: Water

Analysis Batch: 715524

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			06/13/24 14:14	1

Lab Sample ID: LCS 480-715524/135

Matrix: Water

Analysis Batch: 715524

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	50.06		mg/L		100	90 - 110

Lab Sample ID: LCS 480-715524/143

Matrix: Water

Analysis Batch: 715524

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	50.31		mg/L		101	90 - 110

Lab Sample ID: LCS 480-715524/150

Matrix: Water

Analysis Batch: 715524

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	50.38		mg/L		101	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-715524/217
Matrix: Water
Analysis Batch: 715524

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	50.88		mg/L		102	90 - 110

Lab Sample ID: LCS 480-715524/237
Matrix: Water
Analysis Batch: 715524

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	54.10		mg/L		108	90 - 110

Lab Sample ID: 480-220635-2 MS
Matrix: Water
Analysis Batch: 715524

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
Alkalinity, Total	143		20.0	183.7	4	mg/L		206	60 - 140

Lab Sample ID: 480-220635-2 MSD
Matrix: Water
Analysis Batch: 715524

Client Sample ID: CD-1RA
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	143		20.0	176.6	4	mg/L		170	60 - 140	4	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-715198/51
Matrix: Water
Analysis Batch: 715198

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			06/11/24 12:24	1

Lab Sample ID: MB 480-715198/75
Matrix: Water
Analysis Batch: 715198

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			06/11/24 12:51	1

Lab Sample ID: LCS 480-715198/52
Matrix: Water
Analysis Batch: 715198

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	1.03		mg/L		103	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-715198/76

Matrix: Water

Analysis Batch: 715198

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	1.03		mg/L		103	90 - 110

Lab Sample ID: 480-220635-3 MS

Matrix: Water

Analysis Batch: 715198

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	0.050	F1	0.200	0.214	F1	mg/L		82	90 - 110

Lab Sample ID: 480-220635-3 MSD

Matrix: Water

Analysis Batch: 715198

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
Ammonia	0.050	F1	0.200	0.218	F1	mg/L		84	90 - 110	2	20

Lab Sample ID: 480-220635-9 MS

Matrix: Water

Analysis Batch: 715198

Client Sample ID: MW-6A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.13		0.200	0.332		mg/L		100	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-715050/1-A

Matrix: Water

Analysis Batch: 715199

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 715050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/10/24 13:20	06/11/24 10:55	1

Lab Sample ID: LCS 480-715050/2-A

Matrix: Water

Analysis Batch: 715199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 715050

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

Lab Sample ID: 480-220635-4 MS

Matrix: Water

Analysis Batch: 715199

Client Sample ID: MW-1B

Prep Type: Total/NA

Prep Batch: 715050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	ND	F1	1.00	2.17	F1	mg/L		217	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 410.4 - COD

Lab Sample ID: MB 480-715584/28

Matrix: Water

Analysis Batch: 715584

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			06/13/24 15:58	1

Lab Sample ID: MB 480-715584/4

Matrix: Water

Analysis Batch: 715584

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			06/13/24 14:52	1

Lab Sample ID: LCS 480-715584/29

Matrix: Water

Analysis Batch: 715584

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	26.91		mg/L		108	90 - 110

Lab Sample ID: LCS 480-715584/5

Matrix: Water

Analysis Batch: 715584

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	24.79		mg/L		99	90 - 110

Lab Sample ID: 480-220635-3 MS

Matrix: Water

Analysis Batch: 715584

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
Chemical Oxygen Demand	ND		50.0	50.56		mg/L		101	90 - 110

Lab Sample ID: 480-220635-10 MS

Matrix: Water

Analysis Batch: 715584

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
Chemical Oxygen Demand	ND		50.0	55.22		mg/L		110	90 - 110

Lab Sample ID: 480-220635-10 DU

Matrix: Water

Analysis Batch: 715584

Client Sample ID: MW-6B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-715525/131

Matrix: Water

Analysis Batch: 715525

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			06/12/24 23:46	1

Lab Sample ID: MB 480-715525/159

Matrix: Water

Analysis Batch: 715525

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			06/13/24 01:29	1

Lab Sample ID: LCS 480-715525/132

Matrix: Water

Analysis Batch: 715525

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	0.0957		mg/L		96	90 - 110

Lab Sample ID: LCS 480-715525/160

Matrix: Water

Analysis Batch: 715525

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	0.0941		mg/L		94	90 - 110

Lab Sample ID: MB 480-715680/47

Matrix: Water

Analysis Batch: 715680

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			06/14/24 01:42	1

Lab Sample ID: MB 480-715680/76

Matrix: Water

Analysis Batch: 715680

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			06/14/24 03:28	1

Lab Sample ID: LCS 480-715680/48

Matrix: Water

Analysis Batch: 715680

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

Lab Sample ID: LCS 480-715680/77

Matrix: Water

Analysis Batch: 715680

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	0.0979		mg/L		98	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-715306/103

Matrix: Water

Analysis Batch: 715306

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			06/11/24 13:06	1

Lab Sample ID: MB 480-715306/109

Matrix: Water

Analysis Batch: 715306

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			06/11/24 13:09	1

Lab Sample ID: MB 480-715306/53

Matrix: Water

Analysis Batch: 715306

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			06/11/24 12:49	1

Lab Sample ID: MB 480-715306/61

Matrix: Water

Analysis Batch: 715306

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			06/11/24 12:52	1

Lab Sample ID: MB 480-715306/69

Matrix: Water

Analysis Batch: 715306

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			06/11/24 12:54	1

Lab Sample ID: MB 480-715306/77

Matrix: Water

Analysis Batch: 715306

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			06/11/24 12:57	1

Lab Sample ID: LCS 480-715306/108

Matrix: Water

Analysis Batch: 715306

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	31.84		mg/L		106	90 - 110

Lab Sample ID: LCS 480-715306/60

Matrix: Water

Analysis Batch: 715306

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	31.20		mg/L		104	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-715306/68

Matrix: Water

Analysis Batch: 715306

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	31.61		mg/L		105	90 - 110

Lab Sample ID: LCS 480-715306/76

Matrix: Water

Analysis Batch: 715306

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	32.02		mg/L		107	90 - 110

Lab Sample ID: 480-220635-5 MS

Matrix: Water

Analysis Batch: 715306

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
Sulfate	8.2		20.0	31.03		mg/L		114	60 - 128

Lab Sample ID: 480-220635-5 MSD

Matrix: Water

Analysis Batch: 715306

Client Sample ID: MW-3A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	8.2		20.0	32.37		mg/L		121	60 - 128	4	20

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

Lab Sample ID: MB 480-715323/1

Matrix: Water

Analysis Batch: 715323

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			06/12/24 11:20	1

Lab Sample ID: LCS 480-715323/2

Matrix: Water

Analysis Batch: 715323

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	501	498.0		mg/L		100	85 - 115

Lab Sample ID: 480-220635-1 DU

Matrix: Water

Analysis Batch: 715323

Client Sample ID: CD-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	152		152.0		mg/L		0	10

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-715304/105

Matrix: Water

Analysis Batch: 715304

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			06/11/24 10:37	1

Lab Sample ID: MB 480-715304/41

Matrix: Water

Analysis Batch: 715304

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			06/11/24 09:05	1

Lab Sample ID: MB 480-715304/56

Matrix: Water

Analysis Batch: 715304

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			06/11/24 09:17	1

Lab Sample ID: MB 480-715304/70

Matrix: Water

Analysis Batch: 715304

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			06/11/24 10:09	1

Lab Sample ID: MB 480-715304/82

Matrix: Water

Analysis Batch: 715304

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			06/11/24 10:12	1

Lab Sample ID: MB 480-715304/90

Matrix: Water

Analysis Batch: 715304

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			06/11/24 10:31	1

Lab Sample ID: MB 480-715304/99

Matrix: Water

Analysis Batch: 715304

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			06/11/24 10:36	1

Lab Sample ID: LCS 480-715304/104

Matrix: Water

Analysis Batch: 715304

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	27.16		mg/L		109	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: LCS 480-715304/55
Matrix: Water
Analysis Batch: 715304

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	27.41		mg/L		110	90 - 110

Lab Sample ID: LCS 480-715304/81
Matrix: Water
Analysis Batch: 715304

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	26.85		mg/L		107	90 - 110

Lab Sample ID: LCS 480-715304/89
Matrix: Water
Analysis Batch: 715304

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	27.41		mg/L		110	90 - 110

Lab Sample ID: 480-220635-5 MS
Matrix: Water
Analysis Batch: 715304

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
Chloride	3.4		20.0	26.45		mg/L		115	74 - 131

Lab Sample ID: 480-220635-5 MSD
Matrix: Water
Analysis Batch: 715304

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.4		20.0	26.84		mg/L		117	74 - 131	1	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-714941/1
Matrix: Water
Analysis Batch: 714941

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			06/08/24 09:05	1

Lab Sample ID: LCS 480-714941/2
Matrix: Water
Analysis Batch: 714941

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	198	193.6		mg/L		98	85 - 115

Eurofins Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method: SM 5310C - TOC

Lab Sample ID: MB 480-715307/28

Matrix: Water

Analysis Batch: 715307

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			06/11/24 23:56	1
TOC Result 2	ND		1.0		mg/L			06/11/24 23:56	1

Lab Sample ID: MB 480-715307/4

Matrix: Water

Analysis Batch: 715307

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			06/11/24 12:51	1
TOC Result 2	ND		1.0		mg/L			06/11/24 12:51	1

Lab Sample ID: LCS 480-715307/29

Matrix: Water

Analysis Batch: 715307

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	59.33		mg/L		99	90 - 110
TOC Result 2	60.0	64.35		mg/L		107	90 - 110

Lab Sample ID: LCS 480-715307/5

Matrix: Water

Analysis Batch: 715307

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	62.46		mg/L		104	90 - 110

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

GC/MS VOA

Analysis Batch: 715291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-11	TRIP BLANK	Total/NA	Water	8260C	
MB 480-715291/8	Method Blank	Total/NA	Water	8260C	
LCS 480-715291/6	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 715078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	3005A	
480-220635-2	CD-1RA	Total/NA	Water	3005A	
480-220635-3	MW-1A	Total/NA	Water	3005A	
480-220635-4	MW-1B	Total/NA	Water	3005A	
480-220635-5	MW-3A	Total/NA	Water	3005A	
480-220635-6	MW-3B	Total/NA	Water	3005A	
480-220635-7	MW-4A	Total/NA	Water	3005A	
480-220635-8	MW-5A	Total/NA	Water	3005A	
480-220635-9	MW-6A	Total/NA	Water	3005A	
480-220635-10	MW-6B	Total/NA	Water	3005A	
MB 480-715078/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-715078/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-220635-1 MS	CD-1	Total/NA	Water	3005A	
480-220635-1 MSD	CD-1	Total/NA	Water	3005A	

Analysis Batch: 715274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	6010C	715078
480-220635-2	CD-1RA	Total/NA	Water	6010C	715078
480-220635-3	MW-1A	Total/NA	Water	6010C	715078
480-220635-4	MW-1B	Total/NA	Water	6010C	715078
480-220635-5	MW-3A	Total/NA	Water	6010C	715078
480-220635-6	MW-3B	Total/NA	Water	6010C	715078
480-220635-7	MW-4A	Total/NA	Water	6010C	715078
480-220635-8	MW-5A	Total/NA	Water	6010C	715078
480-220635-9	MW-6A	Total/NA	Water	6010C	715078
480-220635-10	MW-6B	Total/NA	Water	6010C	715078
MB 480-715078/1-A	Method Blank	Total/NA	Water	6010C	715078
LCS 480-715078/2-A	Lab Control Sample	Total/NA	Water	6010C	715078
480-220635-1 MS	CD-1	Total/NA	Water	6010C	715078
480-220635-1 MSD	CD-1	Total/NA	Water	6010C	715078

Analysis Batch: 715376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	SM 2340B	
480-220635-2	CD-1RA	Total/NA	Water	SM 2340B	
480-220635-3	MW-1A	Total/NA	Water	SM 2340B	
480-220635-4	MW-1B	Total/NA	Water	SM 2340B	
480-220635-5	MW-3A	Total/NA	Water	SM 2340B	
480-220635-6	MW-3B	Total/NA	Water	SM 2340B	
480-220635-7	MW-4A	Total/NA	Water	SM 2340B	
480-220635-8	MW-5A	Total/NA	Water	SM 2340B	
480-220635-9	MW-6A	Total/NA	Water	SM 2340B	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Metals (Continued)

Analysis Batch: 715376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-10	MW-6B	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 714941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	SM 5210B	
480-220635-2	CD-1RA	Total/NA	Water	SM 5210B	
480-220635-3	MW-1A	Total/NA	Water	SM 5210B	
480-220635-4	MW-1B	Total/NA	Water	SM 5210B	
480-220635-5	MW-3A	Total/NA	Water	SM 5210B	
480-220635-6	MW-3B	Total/NA	Water	SM 5210B	
480-220635-7	MW-4A	Total/NA	Water	SM 5210B	
480-220635-8	MW-5A	Total/NA	Water	SM 5210B	
480-220635-9	MW-6A	Total/NA	Water	SM 5210B	
480-220635-10	MW-6B	Total/NA	Water	SM 5210B	
USB 480-714941/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-714941/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 714956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	353.2	
480-220635-2	CD-1RA	Total/NA	Water	353.2	
480-220635-3	MW-1A	Total/NA	Water	353.2	
480-220635-4	MW-1B	Total/NA	Water	353.2	
480-220635-5	MW-3A	Total/NA	Water	353.2	
480-220635-6	MW-3B	Total/NA	Water	353.2	
480-220635-7	MW-4A	Total/NA	Water	353.2	
480-220635-8	MW-5A	Total/NA	Water	353.2	
480-220635-9	MW-6A	Total/NA	Water	353.2	
480-220635-10	MW-6B	Total/NA	Water	353.2	

Prep Batch: 715050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	351.2	
480-220635-2	CD-1RA	Total/NA	Water	351.2	
480-220635-3	MW-1A	Total/NA	Water	351.2	
480-220635-4	MW-1B	Total/NA	Water	351.2	
480-220635-5	MW-3A	Total/NA	Water	351.2	
480-220635-6	MW-3B	Total/NA	Water	351.2	
480-220635-7	MW-4A	Total/NA	Water	351.2	
480-220635-8	MW-5A	Total/NA	Water	351.2	
480-220635-9	MW-6A	Total/NA	Water	351.2	
480-220635-10	MW-6B	Total/NA	Water	351.2	
MB 480-715050/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-715050/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-220635-4 MS	MW-1B	Total/NA	Water	351.2	

Analysis Batch: 715198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	350.1	

Eurofins Buffalo

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

General Chemistry (Continued)

Analysis Batch: 715198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-2	CD-1RA	Total/NA	Water	350.1	
480-220635-3	MW-1A	Total/NA	Water	350.1	
480-220635-4	MW-1B	Total/NA	Water	350.1	
480-220635-5	MW-3A	Total/NA	Water	350.1	
480-220635-6	MW-3B	Total/NA	Water	350.1	
480-220635-7	MW-4A	Total/NA	Water	350.1	
480-220635-8	MW-5A	Total/NA	Water	350.1	
480-220635-9	MW-6A	Total/NA	Water	350.1	
480-220635-10	MW-6B	Total/NA	Water	350.1	
MB 480-715198/51	Method Blank	Total/NA	Water	350.1	
MB 480-715198/75	Method Blank	Total/NA	Water	350.1	
LCS 480-715198/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-715198/76	Lab Control Sample	Total/NA	Water	350.1	
480-220635-3 MS	MW-1A	Total/NA	Water	350.1	
480-220635-3 MSD	MW-1A	Total/NA	Water	350.1	
480-220635-9 MS	MW-6A	Total/NA	Water	350.1	

Analysis Batch: 715199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	351.2	715050
480-220635-2	CD-1RA	Total/NA	Water	351.2	715050
480-220635-3	MW-1A	Total/NA	Water	351.2	715050
480-220635-4	MW-1B	Total/NA	Water	351.2	715050
480-220635-5	MW-3A	Total/NA	Water	351.2	715050
480-220635-6	MW-3B	Total/NA	Water	351.2	715050
480-220635-7	MW-4A	Total/NA	Water	351.2	715050
480-220635-8	MW-5A	Total/NA	Water	351.2	715050
480-220635-9	MW-6A	Total/NA	Water	351.2	715050
480-220635-10	MW-6B	Total/NA	Water	351.2	715050
MB 480-715050/1-A	Method Blank	Total/NA	Water	351.2	715050
LCS 480-715050/2-A	Lab Control Sample	Total/NA	Water	351.2	715050
480-220635-4 MS	MW-1B	Total/NA	Water	351.2	715050

Analysis Batch: 715205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	300.0	
480-220635-2	CD-1RA	Total/NA	Water	300.0	
480-220635-3	MW-1A	Total/NA	Water	300.0	
480-220635-4	MW-1B	Total/NA	Water	300.0	
480-220635-5	MW-3A	Total/NA	Water	300.0	
480-220635-6	MW-3B	Total/NA	Water	300.0	
480-220635-7	MW-4A	Total/NA	Water	300.0	
MB 480-715205/28	Method Blank	Total/NA	Water	300.0	
MB 480-715205/4	Method Blank	Total/NA	Water	300.0	
LCS 480-715205/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-715205/5	Lab Control Sample	Total/NA	Water	300.0	
480-220635-7 MS	MW-4A	Total/NA	Water	300.0	

Analysis Batch: 715209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-8	MW-5A	Total/NA	Water	300.0	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

General Chemistry (Continued)

Analysis Batch: 715209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-9	MW-6A	Total/NA	Water	300.0	
480-220635-10	MW-6B	Total/NA	Water	300.0	
MB 480-715209/4	Method Blank	Total/NA	Water	300.0	
LCS 480-715209/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 715304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-220635-2	CD-1RA	Total/NA	Water	SM 4500 Cl- E	
480-220635-3	MW-1A	Total/NA	Water	SM 4500 Cl- E	
480-220635-4	MW-1B	Total/NA	Water	SM 4500 Cl- E	
480-220635-5	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-220635-6	MW-3B	Total/NA	Water	SM 4500 Cl- E	
480-220635-7	MW-4A	Total/NA	Water	SM 4500 Cl- E	
480-220635-8	MW-5A	Total/NA	Water	SM 4500 Cl- E	
480-220635-9	MW-6A	Total/NA	Water	SM 4500 Cl- E	
480-220635-10	MW-6B	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/105	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/41	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/56	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/70	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/82	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/90	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-715304/99	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-715304/104	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-715304/55	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-715304/81	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-715304/89	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-220635-5 MS	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-220635-5 MSD	MW-3A	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 715306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	9038	
480-220635-2	CD-1RA	Total/NA	Water	9038	
480-220635-3	MW-1A	Total/NA	Water	9038	
480-220635-4	MW-1B	Total/NA	Water	9038	
480-220635-5	MW-3A	Total/NA	Water	9038	
480-220635-6	MW-3B	Total/NA	Water	9038	
480-220635-7	MW-4A	Total/NA	Water	9038	
480-220635-8	MW-5A	Total/NA	Water	9038	
480-220635-9	MW-6A	Total/NA	Water	9038	
480-220635-10	MW-6B	Total/NA	Water	9038	
MB 480-715306/103	Method Blank	Total/NA	Water	9038	
MB 480-715306/109	Method Blank	Total/NA	Water	9038	
MB 480-715306/53	Method Blank	Total/NA	Water	9038	
MB 480-715306/61	Method Blank	Total/NA	Water	9038	
MB 480-715306/69	Method Blank	Total/NA	Water	9038	
MB 480-715306/77	Method Blank	Total/NA	Water	9038	
LCS 480-715306/108	Lab Control Sample	Total/NA	Water	9038	
LCS 480-715306/60	Lab Control Sample	Total/NA	Water	9038	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

General Chemistry (Continued)

Analysis Batch: 715306 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-715306/68	Lab Control Sample	Total/NA	Water	9038	
LCS 480-715306/76	Lab Control Sample	Total/NA	Water	9038	
480-220635-5 MS	MW-3A	Total/NA	Water	9038	
480-220635-5 MSD	MW-3A	Total/NA	Water	9038	

Analysis Batch: 715307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	SM 5310C	
480-220635-2	CD-1RA	Total/NA	Water	SM 5310C	
480-220635-3	MW-1A	Total/NA	Water	SM 5310C	
480-220635-4	MW-1B	Total/NA	Water	SM 5310C	
480-220635-5	MW-3A	Total/NA	Water	SM 5310C	
480-220635-6	MW-3B	Total/NA	Water	SM 5310C	
480-220635-7	MW-4A	Total/NA	Water	SM 5310C	
480-220635-8	MW-5A	Total/NA	Water	SM 5310C	
480-220635-9	MW-6A	Total/NA	Water	SM 5310C	
480-220635-10	MW-6B	Total/NA	Water	SM 5310C	
MB 480-715307/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-715307/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-715307/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-715307/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 715323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	SM 2540C	
480-220635-2	CD-1RA	Total/NA	Water	SM 2540C	
480-220635-3	MW-1A	Total/NA	Water	SM 2540C	
480-220635-4	MW-1B	Total/NA	Water	SM 2540C	
480-220635-5	MW-3A	Total/NA	Water	SM 2540C	
480-220635-6	MW-3B	Total/NA	Water	SM 2540C	
480-220635-7	MW-4A	Total/NA	Water	SM 2540C	
480-220635-8	MW-5A	Total/NA	Water	SM 2540C	
480-220635-9	MW-6A	Total/NA	Water	SM 2540C	
480-220635-10	MW-6B	Total/NA	Water	SM 2540C	
MB 480-715323/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-715323/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-220635-1 DU	CD-1	Total/NA	Water	SM 2540C	

Analysis Batch: 715524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	310.2	
480-220635-2	CD-1RA	Total/NA	Water	310.2	
480-220635-3	MW-1A	Total/NA	Water	310.2	
480-220635-4	MW-1B	Total/NA	Water	310.2	
480-220635-5	MW-3A	Total/NA	Water	310.2	
480-220635-6	MW-3B	Total/NA	Water	310.2	
480-220635-7	MW-4A	Total/NA	Water	310.2	
480-220635-8	MW-5A	Total/NA	Water	310.2	
480-220635-9	MW-6A	Total/NA	Water	310.2	
480-220635-10	MW-6B	Total/NA	Water	310.2	
MB 480-715524/129	Method Blank	Total/NA	Water	310.2	

Eurofins Buffalo

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

General Chemistry (Continued)

Analysis Batch: 715524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-715524/136	Method Blank	Total/NA	Water	310.2	
MB 480-715524/144	Method Blank	Total/NA	Water	310.2	
MB 480-715524/151	Method Blank	Total/NA	Water	310.2	
MB 480-715524/213	Method Blank	Total/NA	Water	310.2	
MB 480-715524/218	Method Blank	Total/NA	Water	310.2	
MB 480-715524/229	Method Blank	Total/NA	Water	310.2	
MB 480-715524/238	Method Blank	Total/NA	Water	310.2	
LCS 480-715524/135	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-715524/143	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-715524/150	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-715524/217	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-715524/237	Lab Control Sample	Total/NA	Water	310.2	
480-220635-2 MS	CD-1RA	Total/NA	Water	310.2	
480-220635-2 MSD	CD-1RA	Total/NA	Water	310.2	

Analysis Batch: 715525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	420.4	
480-220635-2	CD-1RA	Total/NA	Water	420.4	
480-220635-3	MW-1A	Total/NA	Water	420.4	
480-220635-4	MW-1B	Total/NA	Water	420.4	
480-220635-5	MW-3A	Total/NA	Water	420.4	
480-220635-6	MW-3B	Total/NA	Water	420.4	
480-220635-7	MW-4A	Total/NA	Water	420.4	
MB 480-715525/131	Method Blank	Total/NA	Water	420.4	
MB 480-715525/159	Method Blank	Total/NA	Water	420.4	
LCS 480-715525/132	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-715525/160	Lab Control Sample	Total/NA	Water	420.4	

Analysis Batch: 715584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-1	CD-1	Total/NA	Water	410.4	
480-220635-2	CD-1RA	Total/NA	Water	410.4	
480-220635-3	MW-1A	Total/NA	Water	410.4	
480-220635-4	MW-1B	Total/NA	Water	410.4	
480-220635-5	MW-3A	Total/NA	Water	410.4	
480-220635-6	MW-3B	Total/NA	Water	410.4	
480-220635-7	MW-4A	Total/NA	Water	410.4	
480-220635-8	MW-5A	Total/NA	Water	410.4	
480-220635-9	MW-6A	Total/NA	Water	410.4	
480-220635-10	MW-6B	Total/NA	Water	410.4	
MB 480-715584/28	Method Blank	Total/NA	Water	410.4	
MB 480-715584/4	Method Blank	Total/NA	Water	410.4	
LCS 480-715584/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-715584/5	Lab Control Sample	Total/NA	Water	410.4	
480-220635-3 MS	MW-1A	Total/NA	Water	410.4	
480-220635-10 MS	MW-6B	Total/NA	Water	410.4	
480-220635-10 DU	MW-6B	Total/NA	Water	410.4	

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

General Chemistry

Analysis Batch: 715680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220635-8	MW-5A	Total/NA	Water	420.4	
480-220635-9	MW-6A	Total/NA	Water	420.4	
480-220635-10	MW-6B	Total/NA	Water	420.4	
MB 480-715680/47	Method Blank	Total/NA	Water	420.4	
MB 480-715680/76	Method Blank	Total/NA	Water	420.4	
LCS 480-715680/48	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-715680/77	Lab Control Sample	Total/NA	Water	420.4	

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: CD-1

Date Collected: 06/07/24 12:05

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 17:48
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715205	AF	EET BUF	06/12/24 02:55
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 11:40
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 12:47
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:15
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:40
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 15:47
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:32
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:53
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 10:13
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/11/24 22:33

Client Sample ID: CD-1RA

Date Collected: 06/07/24 12:15

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:03
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715205	AF	EET BUF	06/12/24 03:13
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 11:48
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 12:48
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:16
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:44
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 15:50
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:36
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:53
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 10:14
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 02:42

Eurofins Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-1A

Date Collected: 06/07/24 14:30

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:05
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715205	AF	EET BUF	06/12/24 03:30
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 11:50
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 12:53
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:17
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:45
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:34
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:40
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:53
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 10:14
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 03:10

Client Sample ID: MW-1B

Date Collected: 06/07/24 14:50

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:07
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715205	AF	EET BUF	06/12/24 03:48
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 11:51
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 12:56
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:19
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:47
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:39
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:43
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:55
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 10:14
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 03:38

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-3A

Date Collected: 06/07/24 14:05

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:09
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715205	AF	EET BUF	06/12/24 04:06
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 11:52
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 12:57
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:22
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:48
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:25
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:47
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:56
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 10:34
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 04:06

Client Sample ID: MW-3B

Date Collected: 06/07/24 14:10

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:11
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715205	AF	EET BUF	06/12/24 04:24
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 11:52
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 12:59
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:26
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:50
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:22
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:51
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:57
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 09:22
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 07:20

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-4A

Date Collected: 06/07/24 12:00

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:13
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		2	715205	AF	EET BUF	06/12/24 04:42
Total/NA	Analysis	310.2		23	715524	CG	EET BUF	06/13/24 14:15
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 13:00
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:27
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:54
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:19
Total/NA	Analysis	420.4		1	715525	GW	EET BUF	06/13/24 02:54
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:57
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 09:23
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 07:48

Client Sample ID: MW-5A

Date Collected: 06/07/24 11:40

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:14
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715209	AF	EET BUF	06/11/24 16:14
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 13:23
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 13:01
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:29
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:56
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:16
Total/NA	Analysis	420.4		1	715680	GW	EET BUF	06/14/24 02:14
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:58
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 09:23
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 08:16

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: MW-6A

Date Collected: 06/07/24 11:15

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:22
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715209	AF	EET BUF	06/11/24 16:29
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 13:23
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 13:04
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:30
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:58
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:13
Total/NA	Analysis	420.4		1	715680	GW	EET BUF	06/14/24 02:51
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 12:58
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	715304	CG	EET BUF	06/11/24 09:23
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 08:44

Client Sample ID: MW-6B

Date Collected: 06/07/24 11:00

Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715078	ET	EET BUF	06/11/24 12:34
Total/NA	Analysis	6010C		1	715274	NZG	EET BUF	06/11/24 18:24
Total/NA	Analysis	SM 2340B		1	715376	JJP	EET BUF	06/12/24 14:43
Total/NA	Analysis	300.0		1	715209	AF	EET BUF	06/11/24 16:43
Total/NA	Analysis	310.2		5	715524	CG	EET BUF	06/13/24 13:23
Total/NA	Analysis	350.1		1	715198	AM	EET BUF	06/11/24 13:06
Total/NA	Prep	351.2			715050	RMJ	EET BUF	06/10/24 13:20
Total/NA	Analysis	351.2		1	715199	AM	EET BUF	06/11/24 11:31
Total/NA	Analysis	353.2		1	714956	AM	EET BUF	06/08/24 12:59
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:06
Total/NA	Analysis	420.4		1	715680	GW	EET BUF	06/14/24 02:55
Total/NA	Analysis	9038		1	715306	CG	EET BUF	06/11/24 13:10
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		5	715304	CG	EET BUF	06/11/24 10:43
Total/NA	Analysis	SM 5210B		1	714941	KM	EET BUF	06/08/24 12:51
Total/NA	Analysis	SM 5310C		1	715307	AF	EET BUF	06/12/24 09:12

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Client Sample ID: TRIP BLANK
Date Collected: 06/07/24 00:00
Date Received: 06/08/24 10:00

Lab Sample ID: 480-220635-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	715291	ERS	EET BUF	06/12/24 14:38

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

- 1
- 2
- 3
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- 5
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- 7
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- 13
- 14
- 15

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

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	03-31-25
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
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	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
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
9038	Sulfate, Turbidimetric	SW846	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

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
Project/Site: Towlsee Landfill - Routine Q2 2024

Job ID: 480-220635-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-220635-1	CD-1	Water	06/07/24 12:05	06/08/24 10:00
480-220635-2	CD-1RA	Water	06/07/24 12:15	06/08/24 10:00
480-220635-3	MW-1A	Water	06/07/24 14:30	06/08/24 10:00
480-220635-4	MW-1B	Water	06/07/24 14:50	06/08/24 10:00
480-220635-5	MW-3A	Water	06/07/24 14:05	06/08/24 10:00
480-220635-6	MW-3B	Water	06/07/24 14:10	06/08/24 10:00
480-220635-7	MW-4A	Water	06/07/24 12:00	06/08/24 10:00
480-220635-8	MW-5A	Water	06/07/24 11:40	06/08/24 10:00
480-220635-9	MW-6A	Water	06/07/24 11:15	06/08/24 10:00
480-220635-10	MW-6B	Water	06/07/24 11:00	06/08/24 10:00
480-220635-11	TRIP BLANK	Water	06/07/24 00:00	06/08/24 10:00

Chain of Custody Record

Client Information		Sampler: <u>Chad Hill</u>		Lab PM: <u>Beninati, John</u>		COC No: <u>480-197121-17547.1</u>	
Client Contact: <u>Ms. Kathleen McGrath</u>		Phone: <u>607-345-5684</u>		E-Mail: <u>John.Beninati@et.eurofins.com</u>		Page <u>1</u> of <u>2</u>	
Company: <u>Cortland City Soil & Water Cons District</u>		PWSID: <u></u>		State of Origin: <u></u>		Job #:	
Address: <u>100 Grange Place Rm 202</u>		Due Date Requested: <u></u>		Analysis Requested			
City: <u>Cortland</u>		TAT Requested (days): <u>Standard</u>		Preservation Codes: N - None D - HNO3 S - H2SO4			
State/Zip: <u>NY, 13045</u>		Compliance Project: <u>Δ</u> Yes <u>Δ</u> No		Other:			
Phone: <u></u>		PO #: <u></u>		Total Number of Containers: <u></u>			
Purchase Order not required		WO #: <u></u>		Special Instructions/Note:			
Email: <u>chad.hill@corhlandcounty.ny.gov</u>		Project Name: <u>Towslee Landfill - Routine Q2/24</u>		Barcode: 			
kathleen.mcgrath@corhlandcounty.ny.gov		Event Desc: <u>Towslee Landfill - 148009337</u>		480-220635 Chain of Custody			
Project #: <u></u>		Site: <u>New York</u>					
SSOW#: <u></u>							
Sample Identification		Sample Date		Sample Time		Sample Matrix	
CD-1		6/7/24		1205		Water	
CD-1RA				1215		Water	
MW-1A				1430		Water	
MW-1B				1450		Water	
MW-2A				1100		Water	
MW-2B				1115		Water	
MW-3A				1405		Water	
MW-3B				1410		Water	
MW-4A				1200		Water	
MW-5A				1140		Water	
MW-6A						Water	
<u>MW-6B</u>							
<u>MW-6A</u>							
<u>Trip Blank</u>							
Possible Hazard Identification		☐ Non-Hazard		☐ Flammable		☐ Skin Irritant	
Deliverable Requested: I, II, III, IV, Other (specify)		☐ Poison B		☐ Unknown		☐ Radiological	
Empty Kit Relinquished by: <u>Chad Hill</u>		Date: <u>6/7/24</u>		Time: <u>1540</u>		Company: <u>ES-58</u>	
Relinquished by: <u>K. McGrath</u>		Date/Time: <u>6-7-24, 1900</u>		Date/Time: <u>6/7/24, 1540</u>		Company: <u>ES-58</u>	
Relinquished by: <u>R. English</u>		Date/Time: <u>6-7-24, 1900</u>		Date/Time: <u>6/7/24, 1540</u>		Company: <u>ES-58</u>	
Custody Seal No.: <u></u>		Custody Seal No.: <u></u>		Cooler Temperature(s) °C and Other Remarks: <u># 3.1, 2.8, 2.6</u>		Company: <u>ES-58</u>	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-220635-1

Login Number: 220635

List Source: Eurofins Buffalo

List Number: 1

Creator: Wallace, Cameron

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	

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/24/2024 11:54:36 AM

JOB DESCRIPTION

Towslee Landfill - Routine Parameters
Towslee Landfill - Routine

JOB NUMBER

480-220684-1

Eurofins Buffalo

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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6/24/2024 11:54:36 AM

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

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Definitions/Glossary

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

Job ID: 480-220684-1

Qualifiers

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
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.
b	Result Detected in the Unseeded Control blank (USB).
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Cortland Cty Soil & Water Cons District
Project: Towslee Landfill - Routine Parameters

Job ID: 480-220684-1

Job ID: 480-220684-1

Eurofins Buffalo

Job Narrative 480-220684-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/11/2024 9:45 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 time was 4.4°C.

Metals

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

General Chemistry

Method 300.0_28D: The following samples were diluted due to the nature of the sample matrix: MW-2A (480-220684-1), MW-2B (480-220684-2) and MW-7A (480-220684-3). Elevated reporting limits (RLs) are provided.

Method 5210B: The results increased with increasing dilutions for the following samples: MW-2A (480-220684-1), MW-2B (480-220684-2) and MW-7A (480-220684-3). This indicates a potentially toxic substance is being diluted out. The concentration may be biased low.

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

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Detection Summary

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

Job ID: 480-220684-1

Client Sample ID: MW-2A

Lab Sample ID: 480-220684-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60.4		0.50		mg/L	1		6010C	Total/NA
Iron	6.4		0.050		mg/L	1		6010C	Total/NA
Magnesium	11.6		0.20		mg/L	1		6010C	Total/NA
Manganese	7.1		0.0030		mg/L	1		6010C	Total/NA
Potassium	7.3		0.50		mg/L	1		6010C	Total/NA
Sodium	11.2		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	199		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	271		50.0		mg/L	5		310.2	Total/NA
Ammonia	4.4		0.20		mg/L	10		350.1	Total/NA
Total Kjeldahl Nitrogen	3.9		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.097		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	11.3		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	224		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	10.9		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	2.1	b	2.0		mg/L	1		SM 5210B	Total/NA
TOC Result 1	3.6		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	3.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-2B

Lab Sample ID: 480-220684-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	168		0.50		mg/L	1		6010C	Total/NA
Iron	0.25		0.050		mg/L	1		6010C	Total/NA
Magnesium	34.7		0.20		mg/L	1		6010C	Total/NA
Manganese	4.0		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.9		0.50		mg/L	1		6010C	Total/NA
Sodium	38.5		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	562		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.81		0.40		mg/L	2		300.0	Total/NA
Alkalinity, Total	487		280		mg/L	28		310.2	Total/NA
Ammonia	0.58		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.67		0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	11.5		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	654		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	80.3		5.0		mg/L	5		SM 4500 Cl- E	Total/NA
TOC Result 1	2.0		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: 480-220684-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	89.5		0.50		mg/L	1		6010C	Total/NA
Iron	0.48		0.050		mg/L	1		6010C	Total/NA
Magnesium	19.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.22		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.8		0.50		mg/L	1		6010C	Total/NA
Sodium	47.2		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	303		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	403		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.12	F1	0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.54		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.47		0.050		mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 480-220684-1

Client Sample ID: MW-7A (Continued)

Lab Sample ID: 480-220684-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	15.0		10.0		mg/L	1		410.4	Total/NA
Sulfate	10.5		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	256		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	28.6		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
TOC Result 1	4.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.0		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-220684-1

Client Sample ID: MW-2A

Lab Sample ID: 480-220684-1

Date Collected: 06/10/24 11:40

Matrix: Water

Date Received: 06/11/24 09:45

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/12/24 08:52	06/12/24 14:51	1
Calcium	60.4		0.50		mg/L		06/12/24 08:52	06/12/24 14:51	1
Iron	6.4		0.050		mg/L		06/12/24 08:52	06/12/24 14:51	1
Lead	ND		0.010		mg/L		06/12/24 08:52	06/13/24 10:23	1
Magnesium	11.6		0.20		mg/L		06/12/24 08:52	06/12/24 14:51	1
Manganese	7.1		0.0030		mg/L		06/12/24 08:52	06/12/24 14:51	1
Potassium	7.3		0.50		mg/L		06/12/24 08:52	06/12/24 14:51	1
Sodium	11.2		1.0		mg/L		06/12/24 08:52	06/12/24 14:51	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	199		0.50		mg/L			06/13/24 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.40		mg/L			06/13/24 17:27	2
Alkalinity, Total (EPA 310.2)	271		50.0		mg/L			06/14/24 11:18	5
Ammonia (EPA 350.1)	4.4		0.20		mg/L			06/14/24 14:13	10
Total Kjeldahl Nitrogen (EPA 351.2)	3.9		0.20		mg/L		06/12/24 15:00	06/13/24 16:36	1
Nitrate as N (EPA 353.2)	0.097		0.050		mg/L			06/11/24 19:19	1
Chemical Oxygen Demand (EPA 410.4)	11.3		10.0		mg/L			06/13/24 16:42	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/17/24 22:35	1
Sulfate (SW846 9038)	ND		5.0		mg/L			06/18/24 15:57	1
Total Dissolved Solids (SM 2540C)	224		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	10.9		1.0		mg/L			06/18/24 09:25	1
Biochemical Oxygen Demand (SM 5210B)	2.1 b		2.0		mg/L			06/12/24 09:57	1
TOC Result 1 (SM 5310C)	3.6		1.0		mg/L			06/13/24 01:04	1
TOC Result 2 (SM 5310C)	3.2		1.0		mg/L			06/13/24 01:04	1

Client Sample Results

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

Job ID: 480-220684-1

Client Sample ID: MW-2B

Lab Sample ID: 480-220684-2

Date Collected: 06/10/24 11:30

Matrix: Water

Date Received: 06/11/24 09:45

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/12/24 08:52	06/12/24 14:53	1
Calcium	168		0.50		mg/L		06/12/24 08:52	06/12/24 14:53	1
Iron	0.25		0.050		mg/L		06/12/24 08:52	06/12/24 14:53	1
Lead	ND		0.010		mg/L		06/12/24 08:52	06/13/24 10:25	1
Magnesium	34.7		0.20		mg/L		06/12/24 08:52	06/12/24 14:53	1
Manganese	4.0		0.0030		mg/L		06/12/24 08:52	06/12/24 14:53	1
Potassium	1.9		0.50		mg/L		06/12/24 08:52	06/12/24 14:53	1
Sodium	38.5		1.0		mg/L		06/12/24 08:52	06/12/24 14:53	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	562		0.50		mg/L			06/13/24 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	0.81		0.40		mg/L			06/13/24 18:41	2
Alkalinity, Total (EPA 310.2)	487		280		mg/L			06/14/24 11:18	28
Ammonia (EPA 350.1)	0.58		0.020		mg/L			06/14/24 14:14	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.67		0.20		mg/L		06/12/24 15:00	06/13/24 16:37	1
Nitrate as N (EPA 353.2)	ND		0.050		mg/L			06/11/24 19:19	1
Chemical Oxygen Demand (EPA 410.4)	11.5		10.0		mg/L			06/13/24 19:17	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/17/24 22:39	1
Sulfate (SW846 9038)	ND		5.0		mg/L			06/18/24 15:57	1
Total Dissolved Solids (SM 2540C)	654		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	80.3		5.0		mg/L			06/18/24 09:43	5
Biochemical Oxygen Demand (SM 5210B)	ND		3.0		mg/L			06/12/24 09:57	1
TOC Result 1 (SM 5310C)	2.0		1.0		mg/L			06/13/24 02:02	1
TOC Result 2 (SM 5310C)	1.6		1.0		mg/L			06/13/24 02:02	1

Client Sample Results

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

Job ID: 480-220684-1

Client Sample ID: MW-7A

Lab Sample ID: 480-220684-3

Date Collected: 06/10/24 12:10

Matrix: Water

Date Received: 06/11/24 09:45

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/12/24 08:52	06/12/24 15:03	1
Calcium	89.5		0.50		mg/L		06/12/24 08:52	06/12/24 15:03	1
Iron	0.48		0.050		mg/L		06/12/24 08:52	06/12/24 15:03	1
Lead	ND		0.010		mg/L		06/12/24 08:52	06/13/24 10:40	1
Magnesium	19.3		0.20		mg/L		06/12/24 08:52	06/12/24 15:03	1
Manganese	0.22		0.0030		mg/L		06/12/24 08:52	06/12/24 15:03	1
Potassium	1.8		0.50		mg/L		06/12/24 08:52	06/12/24 15:03	1
Sodium	47.2		1.0		mg/L		06/12/24 08:52	06/12/24 15:03	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	303		0.50		mg/L			06/13/24 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	ND		0.40		mg/L			06/13/24 18:55	2
Alkalinity, Total (EPA 310.2)	403		50.0		mg/L			06/14/24 10:27	5
Ammonia (EPA 350.1)	0.12	F1	0.020		mg/L			06/14/24 14:17	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.54		0.20		mg/L		06/12/24 15:00	06/13/24 16:38	1
Nitrate as N (EPA 353.2)	0.47		0.050		mg/L			06/11/24 19:20	1
Chemical Oxygen Demand (EPA 410.4)	15.0		10.0		mg/L			06/13/24 19:46	1
Phenolics, Total Recoverable (EPA 420.4)	ND		0.010		mg/L			06/17/24 23:10	1
Sulfate (SW846 9038)	10.5		5.0		mg/L			06/18/24 16:02	1
Total Dissolved Solids (SM 2540C)	256		10.0		mg/L			06/12/24 11:20	1
Chloride (SM 4500 Cl- E)	28.6		1.0		mg/L			06/18/24 09:28	1
Biochemical Oxygen Demand (SM 5210B)	ND		3.0		mg/L			06/12/24 09:57	1
TOC Result 1 (SM 5310C)	4.4		1.0		mg/L			06/13/24 03:01	1
TOC Result 2 (SM 5310C)	4.0		1.0		mg/L			06/13/24 03:01	1

QC Sample Results

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

Job ID: 480-220684-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-715240/1-A
Matrix: Water
Analysis Batch: 715424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/12/24 08:52	06/12/24 14:38	1
Calcium	ND		0.50		mg/L		06/12/24 08:52	06/12/24 14:38	1
Iron	ND		0.050		mg/L		06/12/24 08:52	06/12/24 14:38	1
Magnesium	ND		0.20		mg/L		06/12/24 08:52	06/12/24 14:38	1
Manganese	ND		0.0030		mg/L		06/12/24 08:52	06/12/24 14:38	1
Potassium	ND		0.50		mg/L		06/12/24 08:52	06/12/24 14:38	1
Sodium	ND		1.0		mg/L		06/12/24 08:52	06/12/24 14:38	1

Lab Sample ID: MB 480-715240/1-A
Matrix: Water
Analysis Batch: 715488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010		mg/L		06/12/24 08:52	06/13/24 10:19	1

Lab Sample ID: LCS 480-715240/2-A
Matrix: Water
Analysis Batch: 715424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.500	0.483		mg/L		97	80 - 120
Calcium	25.0	25.52		mg/L		102	80 - 120
Iron	5.10	5.35		mg/L		105	80 - 120
Magnesium	25.0	24.77		mg/L		99	80 - 120
Manganese	0.500	0.497		mg/L		99	80 - 120
Potassium	25.0	24.83		mg/L		99	80 - 120
Sodium	25.0	25.35		mg/L		101	80 - 120

Lab Sample ID: LCS 480-715240/2-A
Matrix: Water
Analysis Batch: 715488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: 480-220684-2 MS
Matrix: Water
Analysis Batch: 715424

Client Sample ID: MW-2B
Prep Type: Total/NA
Prep Batch: 715240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	ND		0.500	0.493		mg/L		99	75 - 125
Calcium	168		25.0	190.6	4	mg/L		91	75 - 125
Iron	0.25		5.10	5.60		mg/L		105	75 - 125
Magnesium	34.7		25.0	59.59		mg/L		100	75 - 125
Manganese	4.0		0.500	4.44	4	mg/L		81	75 - 125
Potassium	1.9		25.0	27.83		mg/L		104	75 - 125
Sodium	38.5		25.0	64.24		mg/L		103	75 - 125

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QC Sample Results

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

Job ID: 480-220684-1

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

Lab Sample ID: 480-220684-2 MS

Matrix: Water

Analysis Batch: 715488

Client Sample ID: MW-2B

Prep Type: Total/NA

Prep Batch: 715240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.523		mg/L		105	75 - 125

Lab Sample ID: 480-220684-2 MSD

Matrix: Water

Analysis Batch: 715424

Client Sample ID: MW-2B

Prep Type: Total/NA

Prep Batch: 715240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	ND		0.500	0.498		mg/L		100	75 - 125	1	20
Calcium	168		25.0	194.0	4	mg/L		104	75 - 125	2	20
Iron	0.25		5.10	5.65		mg/L		106	75 - 125	1	20
Magnesium	34.7		25.0	60.59		mg/L		104	75 - 125	2	20
Manganese	4.0		0.500	4.52	4	mg/L		97	75 - 125	2	20
Potassium	1.9		25.0	27.90		mg/L		104	75 - 125	0	20
Sodium	38.5		25.0	65.32		mg/L		107	75 - 125	2	20

Lab Sample ID: 480-220684-2 MSD

Matrix: Water

Analysis Batch: 715488

Client Sample ID: MW-2B

Prep Type: Total/NA

Prep Batch: 715240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		0.500	0.531		mg/L		106	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-715516/4

Matrix: Water

Analysis Batch: 715516

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			06/13/24 15:44	1

Lab Sample ID: LCS 480-715516/5

Matrix: Water

Analysis Batch: 715516

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	5.09		mg/L		102	90 - 110

Lab Sample ID: 480-220684-1 MS

Matrix: Water

Analysis Batch: 715516

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
Bromide	ND		10.0	10.83		mg/L		106	80 - 120

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QC Sample Results

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

Job ID: 480-220684-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-220684-1 MSD
Matrix: Water
Analysis Batch: 715516

Client Sample ID: MW-2A
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		10.0	10.94		mg/L		107	80 - 120	1	15

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-715728/12
Matrix: Water
Analysis Batch: 715728

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			06/14/24 09:57	1

Lab Sample ID: MB 480-715728/122
Matrix: Water
Analysis Batch: 715728

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			06/14/24 11:53	1

Lab Sample ID: MB 480-715728/129
Matrix: Water
Analysis Batch: 715728

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			06/14/24 12:00	1

Lab Sample ID: MB 480-715728/19
Matrix: Water
Analysis Batch: 715728

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			06/14/24 10:19	1

Lab Sample ID: MB 480-715728/58
Matrix: Water
Analysis Batch: 715728

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			06/14/24 11:04	1

Lab Sample ID: MB 480-715728/72
Matrix: Water
Analysis Batch: 715728

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			06/14/24 11:17	1

QC Sample Results

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

Job ID: 480-220684-1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-715728/128
Matrix: Water
Analysis Batch: 715728

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	49.80		mg/L		100	90 - 110

Lab Sample ID: LCS 480-715728/18
Matrix: Water
Analysis Batch: 715728

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	49.50		mg/L		99	90 - 110

Lab Sample ID: LCS 480-715728/71
Matrix: Water
Analysis Batch: 715728

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	47.75		mg/L		95	90 - 110

Lab Sample ID: 480-220684-1 MS
Matrix: Water
Analysis Batch: 715728

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
Alkalinity, Total	271		20.0	272.9	4	mg/L		10	60 - 140

Lab Sample ID: 480-220684-1 MSD
Matrix: Water
Analysis Batch: 715728

Client Sample ID: MW-2A
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	271		20.0	279.7	4	mg/L		44	60 - 140	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-715711/3
Matrix: Water
Analysis Batch: 715711

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			06/14/24 14:04	1

Lab Sample ID: LCS 480-715711/4
Matrix: Water
Analysis Batch: 715711

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	1.05		mg/L		105	90 - 110

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QC Sample Results

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

Job ID: 480-220684-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-220684-3 MS
Matrix: Water
Analysis Batch: 715711

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
Ammonia	0.12	F1	0.200	0.295	F1	mg/L		89	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-715378/1-A
Matrix: Water
Analysis Batch: 715623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/12/24 15:00	06/13/24 16:26	1

Lab Sample ID: LCS 480-715378/2-A
Matrix: Water
Analysis Batch: 715623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.32		mg/L		93	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-715584/28
Matrix: Water
Analysis Batch: 715584

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			06/13/24 15:58	1

Lab Sample ID: MB 480-715584/4
Matrix: Water
Analysis Batch: 715584

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			06/13/24 14:52	1

Lab Sample ID: LCS 480-715584/29
Matrix: Water
Analysis Batch: 715584

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	26.91		mg/L		108	90 - 110

Lab Sample ID: LCS 480-715584/5
Matrix: Water
Analysis Batch: 715584

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	24.79		mg/L		99	90 - 110

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QC Sample Results

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

Job ID: 480-220684-1

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-715985/16

Matrix: Water

Analysis Batch: 715985

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			06/17/24 22:05	1

Lab Sample ID: LCS 480-715985/17

Matrix: Water

Analysis Batch: 715985

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	0.0958		mg/L		96	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-716042/136

Matrix: Water

Analysis Batch: 716042

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			06/18/24 15:50	1

Lab Sample ID: MB 480-716042/143

Matrix: Water

Analysis Batch: 716042

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			06/18/24 15:53	1

Lab Sample ID: MB 480-716042/151

Matrix: Water

Analysis Batch: 716042

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			06/18/24 15:56	1

Lab Sample ID: MB 480-716042/158

Matrix: Water

Analysis Batch: 716042

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			06/18/24 15:59	1

Lab Sample ID: MB 480-716042/164

Matrix: Water

Analysis Batch: 716042

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			06/18/24 16:01	1

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QC Sample Results

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

Job ID: 480-220684-1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: LCS 480-716042/142

Matrix: Water

Analysis Batch: 716042

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	31.61		mg/L		105	90 - 110

Lab Sample ID: LCS 480-716042/150

Matrix: Water

Analysis Batch: 716042

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	31.55		mg/L		105	90 - 110

Lab Sample ID: LCS 480-716042/163

Matrix: Water

Analysis Batch: 716042

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	31.12		mg/L		104	90 - 110

Lab Sample ID: 480-220684-2 MS

Matrix: Water

Analysis Batch: 716042

Client Sample ID: MW-2B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND		20.0	26.24		mg/L		112	60 - 128

Lab Sample ID: 480-220684-2 MSD

Matrix: Water

Analysis Batch: 716042

Client Sample ID: MW-2B

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		20.0	27.49		mg/L		118	60 - 128	5	20

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

Lab Sample ID: MB 480-715323/1

Matrix: Water

Analysis Batch: 715323

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			06/12/24 11:20	1

Lab Sample ID: LCS 480-715323/2

Matrix: Water

Analysis Batch: 715323

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	501	498.0		mg/L		100	85 - 115

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QC Sample Results

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

Job ID: 480-220684-1

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

Lab Sample ID: 480-220684-2 DU
Matrix: Water
Analysis Batch: 715323

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	654		665.0		mg/L		2	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-716041/13
Matrix: Water
Analysis Batch: 716041

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			06/18/24 09:24	1

Lab Sample ID: MB 480-716041/22
Matrix: Water
Analysis Batch: 716041

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			06/18/24 09:27	1

Lab Sample ID: MB 480-716041/34
Matrix: Water
Analysis Batch: 716041

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			06/18/24 09:31	1

Lab Sample ID: MB 480-716041/45
Matrix: Water
Analysis Batch: 716041

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			06/18/24 09:34	1

Lab Sample ID: LCS 480-716041/12
Matrix: Water
Analysis Batch: 716041

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	27.35		mg/L		109	90 - 110

Lab Sample ID: LCS 480-716041/21
Matrix: Water
Analysis Batch: 716041

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	27.15		mg/L		109	90 - 110

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QC Sample Results

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

Job ID: 480-220684-1

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

Lab Sample ID: LCS 480-716041/44
Matrix: Water
Analysis Batch: 716041

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	27.45		mg/L		110	90 - 110

Lab Sample ID: 480-220684-2 MS
Matrix: Water
Analysis Batch: 716041

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	80.3		20.0	105.6	4	mg/L		126	74 - 131

Lab Sample ID: 480-220684-2 MSD
Matrix: Water
Analysis Batch: 716041

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.3		20.0	102.5	4	mg/L		111	74 - 131	3	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-715336/1
Matrix: Water
Analysis Batch: 715336

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			06/12/24 09:57	1

Lab Sample ID: LCS 480-715336/2
Matrix: Water
Analysis Batch: 715336

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	199	188.3		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-715600/28
Matrix: Water
Analysis Batch: 715600

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			06/13/24 00:06	1
TOC Result 2	ND		1.0		mg/L			06/13/24 00:06	1

Lab Sample ID: LCS 480-715600/29
Matrix: Water
Analysis Batch: 715600

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	61.02		mg/L		102	90 - 110
TOC Result 2	60.0	62.74		mg/L		105	90 - 110

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QC Sample Results

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

Job ID: 480-220684-1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: 480-220684-1 MS
Matrix: Water
Analysis Batch: 715600

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	3.6		23.3	26.32		mg/L		98	54 - 131
TOC Result 2	3.2		23.3	27.72		mg/L		105	54 - 131

Lab Sample ID: 480-220684-2 DU
Matrix: Water
Analysis Batch: 715600

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	2.0		2.02		mg/L		0.6	20
TOC Result 2	1.6		1.66		mg/L		2	20

QC Association Summary

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

Job ID: 480-220684-1

Metals

Prep Batch: 715240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	3005A	
480-220684-2	MW-2B	Total/NA	Water	3005A	
480-220684-3	MW-7A	Total/NA	Water	3005A	
MB 480-715240/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-715240/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-220684-2 MS	MW-2B	Total/NA	Water	3005A	
480-220684-2 MSD	MW-2B	Total/NA	Water	3005A	

Analysis Batch: 715424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	6010C	715240
480-220684-2	MW-2B	Total/NA	Water	6010C	715240
480-220684-3	MW-7A	Total/NA	Water	6010C	715240
MB 480-715240/1-A	Method Blank	Total/NA	Water	6010C	715240
LCS 480-715240/2-A	Lab Control Sample	Total/NA	Water	6010C	715240
480-220684-2 MS	MW-2B	Total/NA	Water	6010C	715240
480-220684-2 MSD	MW-2B	Total/NA	Water	6010C	715240

Analysis Batch: 715488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	6010C	715240
480-220684-2	MW-2B	Total/NA	Water	6010C	715240
480-220684-3	MW-7A	Total/NA	Water	6010C	715240
MB 480-715240/1-A	Method Blank	Total/NA	Water	6010C	715240
LCS 480-715240/2-A	Lab Control Sample	Total/NA	Water	6010C	715240
480-220684-2 MS	MW-2B	Total/NA	Water	6010C	715240
480-220684-2 MSD	MW-2B	Total/NA	Water	6010C	715240

Analysis Batch: 715513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	SM 2340B	
480-220684-2	MW-2B	Total/NA	Water	SM 2340B	
480-220684-3	MW-7A	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 715323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	SM 2540C	
480-220684-2	MW-2B	Total/NA	Water	SM 2540C	
480-220684-3	MW-7A	Total/NA	Water	SM 2540C	
MB 480-715323/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-715323/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-220684-2 DU	MW-2B	Total/NA	Water	SM 2540C	

Analysis Batch: 715336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	SM 5210B	
480-220684-2	MW-2B	Total/NA	Water	SM 5210B	
480-220684-3	MW-7A	Total/NA	Water	SM 5210B	
USB 480-715336/1	Method Blank	Total/NA	Water	SM 5210B	

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QC Association Summary

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

Job ID: 480-220684-1

General Chemistry (Continued)

Analysis Batch: 715336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-715336/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 715358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	353.2	
480-220684-2	MW-2B	Total/NA	Water	353.2	
480-220684-3	MW-7A	Total/NA	Water	353.2	

Prep Batch: 715378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	351.2	
480-220684-2	MW-2B	Total/NA	Water	351.2	
480-220684-3	MW-7A	Total/NA	Water	351.2	
MB 480-715378/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-715378/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 715516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	300.0	
480-220684-2	MW-2B	Total/NA	Water	300.0	
480-220684-3	MW-7A	Total/NA	Water	300.0	
MB 480-715516/4	Method Blank	Total/NA	Water	300.0	
LCS 480-715516/5	Lab Control Sample	Total/NA	Water	300.0	
480-220684-1 MS	MW-2A	Total/NA	Water	300.0	
480-220684-1 MSD	MW-2A	Total/NA	Water	300.0	

Analysis Batch: 715584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	410.4	
480-220684-2	MW-2B	Total/NA	Water	410.4	
480-220684-3	MW-7A	Total/NA	Water	410.4	
MB 480-715584/28	Method Blank	Total/NA	Water	410.4	
MB 480-715584/4	Method Blank	Total/NA	Water	410.4	
LCS 480-715584/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-715584/5	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 715600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	SM 5310C	
480-220684-2	MW-2B	Total/NA	Water	SM 5310C	
480-220684-3	MW-7A	Total/NA	Water	SM 5310C	
MB 480-715600/28	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-715600/29	Lab Control Sample	Total/NA	Water	SM 5310C	
480-220684-1 MS	MW-2A	Total/NA	Water	SM 5310C	
480-220684-2 DU	MW-2B	Total/NA	Water	SM 5310C	

Analysis Batch: 715623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	351.2	715378
480-220684-2	MW-2B	Total/NA	Water	351.2	715378
480-220684-3	MW-7A	Total/NA	Water	351.2	715378

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QC Association Summary

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

Job ID: 480-220684-1

General Chemistry (Continued)

Analysis Batch: 715623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-715378/1-A	Method Blank	Total/NA	Water	351.2	715378
LCS 480-715378/2-A	Lab Control Sample	Total/NA	Water	351.2	715378

Analysis Batch: 715711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	350.1	
480-220684-2	MW-2B	Total/NA	Water	350.1	
480-220684-3	MW-7A	Total/NA	Water	350.1	
MB 480-715711/3	Method Blank	Total/NA	Water	350.1	
LCS 480-715711/4	Lab Control Sample	Total/NA	Water	350.1	
480-220684-3 MS	MW-7A	Total/NA	Water	350.1	

Analysis Batch: 715728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	310.2	
480-220684-2	MW-2B	Total/NA	Water	310.2	
480-220684-3	MW-7A	Total/NA	Water	310.2	
MB 480-715728/12	Method Blank	Total/NA	Water	310.2	
MB 480-715728/122	Method Blank	Total/NA	Water	310.2	
MB 480-715728/129	Method Blank	Total/NA	Water	310.2	
MB 480-715728/19	Method Blank	Total/NA	Water	310.2	
MB 480-715728/58	Method Blank	Total/NA	Water	310.2	
MB 480-715728/72	Method Blank	Total/NA	Water	310.2	
LCS 480-715728/128	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-715728/18	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-715728/71	Lab Control Sample	Total/NA	Water	310.2	
480-220684-1 MS	MW-2A	Total/NA	Water	310.2	
480-220684-1 MSD	MW-2A	Total/NA	Water	310.2	

Analysis Batch: 715985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	420.4	
480-220684-2	MW-2B	Total/NA	Water	420.4	
480-220684-3	MW-7A	Total/NA	Water	420.4	
MB 480-715985/16	Method Blank	Total/NA	Water	420.4	
LCS 480-715985/17	Lab Control Sample	Total/NA	Water	420.4	

Analysis Batch: 716041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	SM 4500 Cl- E	
480-220684-2	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-220684-3	MW-7A	Total/NA	Water	SM 4500 Cl- E	
MB 480-716041/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-716041/22	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-716041/34	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-716041/45	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-716041/12	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-716041/21	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-716041/44	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-220684-2 MS	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-220684-2 MSD	MW-2B	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

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

Job ID: 480-220684-1

General Chemistry

Analysis Batch: 716042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220684-1	MW-2A	Total/NA	Water	9038	
480-220684-2	MW-2B	Total/NA	Water	9038	
480-220684-3	MW-7A	Total/NA	Water	9038	
MB 480-716042/136	Method Blank	Total/NA	Water	9038	
MB 480-716042/143	Method Blank	Total/NA	Water	9038	
MB 480-716042/151	Method Blank	Total/NA	Water	9038	
MB 480-716042/158	Method Blank	Total/NA	Water	9038	
MB 480-716042/164	Method Blank	Total/NA	Water	9038	
LCS 480-716042/142	Lab Control Sample	Total/NA	Water	9038	
LCS 480-716042/150	Lab Control Sample	Total/NA	Water	9038	
LCS 480-716042/163	Lab Control Sample	Total/NA	Water	9038	
480-220684-2 MS	MW-2B	Total/NA	Water	9038	
480-220684-2 MSD	MW-2B	Total/NA	Water	9038	

Lab Chronicle

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

Job ID: 480-220684-1

Client Sample ID: MW-2A

Date Collected: 06/10/24 11:40

Date Received: 06/11/24 09:45

Lab Sample ID: 480-220684-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715240	EMO	EET BUF	06/12/24 08:52
Total/NA	Analysis	6010C		1	715488	NZG	EET BUF	06/13/24 10:23
Total/NA	Prep	3005A			715240	EMO	EET BUF	06/12/24 08:52
Total/NA	Analysis	6010C		1	715424	NZG	EET BUF	06/12/24 14:51
Total/NA	Analysis	SM 2340B		1	715513	JJP	EET BUF	06/13/24 14:00
Total/NA	Analysis	300.0		2	715516	AF	EET BUF	06/13/24 17:27
Total/NA	Analysis	310.2		5	715728	CG	EET BUF	06/14/24 11:18
Total/NA	Analysis	350.1		10	715711	AM	EET BUF	06/14/24 14:13
Total/NA	Prep	351.2			715378	RMJ	EET BUF	06/12/24 15:00
Total/NA	Analysis	351.2		1	715623	AM	EET BUF	06/13/24 16:36
Total/NA	Analysis	353.2		1	715358	KB	EET BUF	06/11/24 19:19
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 16:42
Total/NA	Analysis	420.4		1	715985	GW	EET BUF	06/17/24 22:35
Total/NA	Analysis	9038		1	716042	CG	EET BUF	06/18/24 15:57
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	716041	CG	EET BUF	06/18/24 09:25
Total/NA	Analysis	SM 5210B		1	715336	CG	EET BUF	06/12/24 09:57
Total/NA	Analysis	SM 5310C		1	715600	AF	EET BUF	06/13/24 01:04

Client Sample ID: MW-2B

Date Collected: 06/10/24 11:30

Date Received: 06/11/24 09:45

Lab Sample ID: 480-220684-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715240	EMO	EET BUF	06/12/24 08:52
Total/NA	Analysis	6010C		1	715488	NZG	EET BUF	06/13/24 10:25
Total/NA	Prep	3005A			715240	EMO	EET BUF	06/12/24 08:52
Total/NA	Analysis	6010C		1	715424	NZG	EET BUF	06/12/24 14:53
Total/NA	Analysis	SM 2340B		1	715513	JJP	EET BUF	06/13/24 14:00
Total/NA	Analysis	300.0		2	715516	AF	EET BUF	06/13/24 18:41
Total/NA	Analysis	310.2		28	715728	CG	EET BUF	06/14/24 11:18
Total/NA	Analysis	350.1		1	715711	AM	EET BUF	06/14/24 14:14
Total/NA	Prep	351.2			715378	RMJ	EET BUF	06/12/24 15:00
Total/NA	Analysis	351.2		1	715623	AM	EET BUF	06/13/24 16:37
Total/NA	Analysis	353.2		1	715358	KB	EET BUF	06/11/24 19:19
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 19:17
Total/NA	Analysis	420.4		1	715985	GW	EET BUF	06/17/24 22:39
Total/NA	Analysis	9038		1	716042	CG	EET BUF	06/18/24 15:57
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		5	716041	CG	EET BUF	06/18/24 09:43
Total/NA	Analysis	SM 5210B		1	715336	CG	EET BUF	06/12/24 09:57
Total/NA	Analysis	SM 5310C		1	715600	AF	EET BUF	06/13/24 02:02

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-220684-1

Client Sample ID: MW-7A

Date Collected: 06/10/24 12:10

Date Received: 06/11/24 09:45

Lab Sample ID: 480-220684-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			715240	EMO	EET BUF	06/12/24 08:52
Total/NA	Analysis	6010C		1	715488	NZG	EET BUF	06/13/24 10:40
Total/NA	Prep	3005A			715240	EMO	EET BUF	06/12/24 08:52
Total/NA	Analysis	6010C		1	715424	NZG	EET BUF	06/12/24 15:03
Total/NA	Analysis	SM 2340B		1	715513	JJP	EET BUF	06/13/24 14:00
Total/NA	Analysis	300.0		2	715516	AF	EET BUF	06/13/24 18:55
Total/NA	Analysis	310.2		5	715728	CG	EET BUF	06/14/24 10:27
Total/NA	Analysis	350.1		1	715711	AM	EET BUF	06/14/24 14:17
Total/NA	Prep	351.2			715378	RMJ	EET BUF	06/12/24 15:00
Total/NA	Analysis	351.2		1	715623	AM	EET BUF	06/13/24 16:38
Total/NA	Analysis	353.2		1	715358	KB	EET BUF	06/11/24 19:20
Total/NA	Analysis	410.4		1	715584	RMJ	EET BUF	06/13/24 19:46
Total/NA	Analysis	420.4		1	715985	GW	EET BUF	06/17/24 23:10
Total/NA	Analysis	9038		1	716042	CG	EET BUF	06/18/24 16:02
Total/NA	Analysis	SM 2540C		1	715323	AB	EET BUF	06/12/24 11:20
Total/NA	Analysis	SM 4500 Cl- E		1	716041	CG	EET BUF	06/18/24 09:28
Total/NA	Analysis	SM 5210B		1	715336	CG	EET BUF	06/12/24 09:57
Total/NA	Analysis	SM 5310C		1	715600	AF	EET BUF	06/13/24 03:01

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
Project/Site: Towslee Landfill - Routine Parameters

Job ID: 480-220684-1

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	03-31-25
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
Project/Site: Towslee Landfill - Routine Parameters

Job ID: 480-220684-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	EET BUF
SM 2340B	Total Hardness (as CaCO ₃) by calculation	SM	EET BUF
300.0	Anions, Ion Chromatography	EPA	EET BUF
310.2	Alkalinity	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
9038	Sulfate, Turbidimetric	SW846	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

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
Project/Site: Towslee Landfill - Routine Parameters

Job ID: 480-220684-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-220684-1	MW-2A	Water	06/10/24 11:40	06/11/24 09:45
480-220684-2	MW-2B	Water	06/10/24 11:30	06/11/24 09:45
480-220684-3	MW-7A	Water	06/10/24 12:10	06/11/24 09:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody Record



Environment Testing

Client Information Client Contact: <u>Chad Hill</u> Phone: <u>607-345-5681</u> Company: <u>Cortland City Soil & Water Cons District</u> Address: <u>100 Grange Place Rm 202</u> City: <u>Cortland</u> State, Zip: <u>NY, 13045</u> Phone: <u>607-253-5991</u> Email: <u>chadhill@cwcd.org</u> Project Name: <u>Towslee Landfill - Routine Q2/24</u> Event Desc: <u>Towslee Landfill</u> Site: <u>New York</u>		Lab PM: <u>Beninati, John</u> E-Mail: <u>John.Beninati@eurofins.com</u> Carrier Tracking No(s): <u>Syracuse #225</u> State of Origin: <u>NY</u> Job #: <u>1 of 1</u>	
Due Date Requested: <u>Standard</u> TAT Requested (days): <u>Standard</u> Compliance Project: <u>Δ Yes Δ No</u> PO #: <u>Purchase Order not required</u> WO #: <u>Project # 48009337</u> SSOW#: <u>SSOW#:</u>		Analysis Requested: <u>#225</u> Preservation Codes: N - None D - HNO3 S - H2SO4	
Sample Identification Sample ID: <u>MW-2A</u> Sample ID: <u>MW-2B</u> Sample ID: <u>MW-7A</u>		Sample Date: <u>6/10/24</u> Sample Time: <u>1140</u> Sample Type: <u>G</u> Matrix: <u>Water</u> Preservation Code: <u>Water</u> Matrix: <u>Water</u> Preservation Code: <u>Water</u> Matrix: <u>Water</u> Preservation Code: <u>Water</u>	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable 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:	
Empty Kit Relinquished by: <u>Chad Hill</u> Relinquished by: <u>Chad Hill</u> Relinquished by: <u>Chad Hill</u> Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No.:		Method of Shipment: <u>480-220684 Chain of Custody</u> Received by: <u>Chad Hill</u> Received by: <u>Chad Hill</u> Received by: <u>Chad Hill</u> Cooler Temperature(s) °C and Other Remarks: <u>414 # ICE</u>	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-220684-1

Login Number: 220684

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	