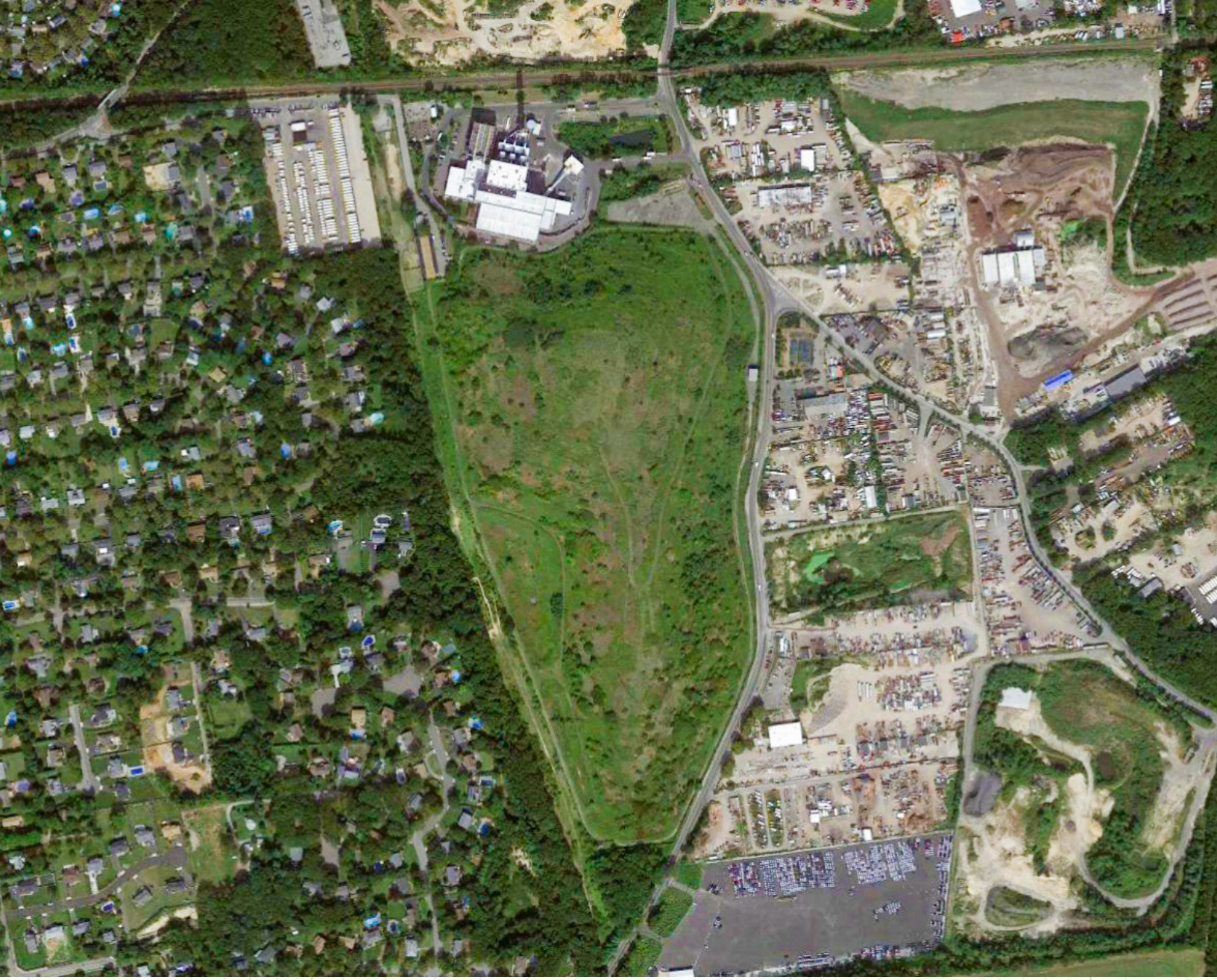


TOWN OF HUNTINGTON - EAST NORTHPORT LANDFILL GROUNDWATER AND SURFACE WATER MONITORING REPORT SECOND SEMI-ANNUAL REPORT 2023

D&B Engineers and Architects

MAY 2024

GROUNDWATER AND SURFACE WATER MONITORING PROGRAM

SECOND SEMI-ANNUAL RESULTS OF 2023

TOWN OF HUNTINGTON
EAST NORTHPORT LANDFILL
TOWNLINE ROAD, EAST NORTHPORT, NEW YORK

Prepared for:

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WOODBURY, NEW YORK

MAY 2024

EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
SECOND SEMI-ANNUAL RESULTS OF 2023

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1.0 INTRODUCTION

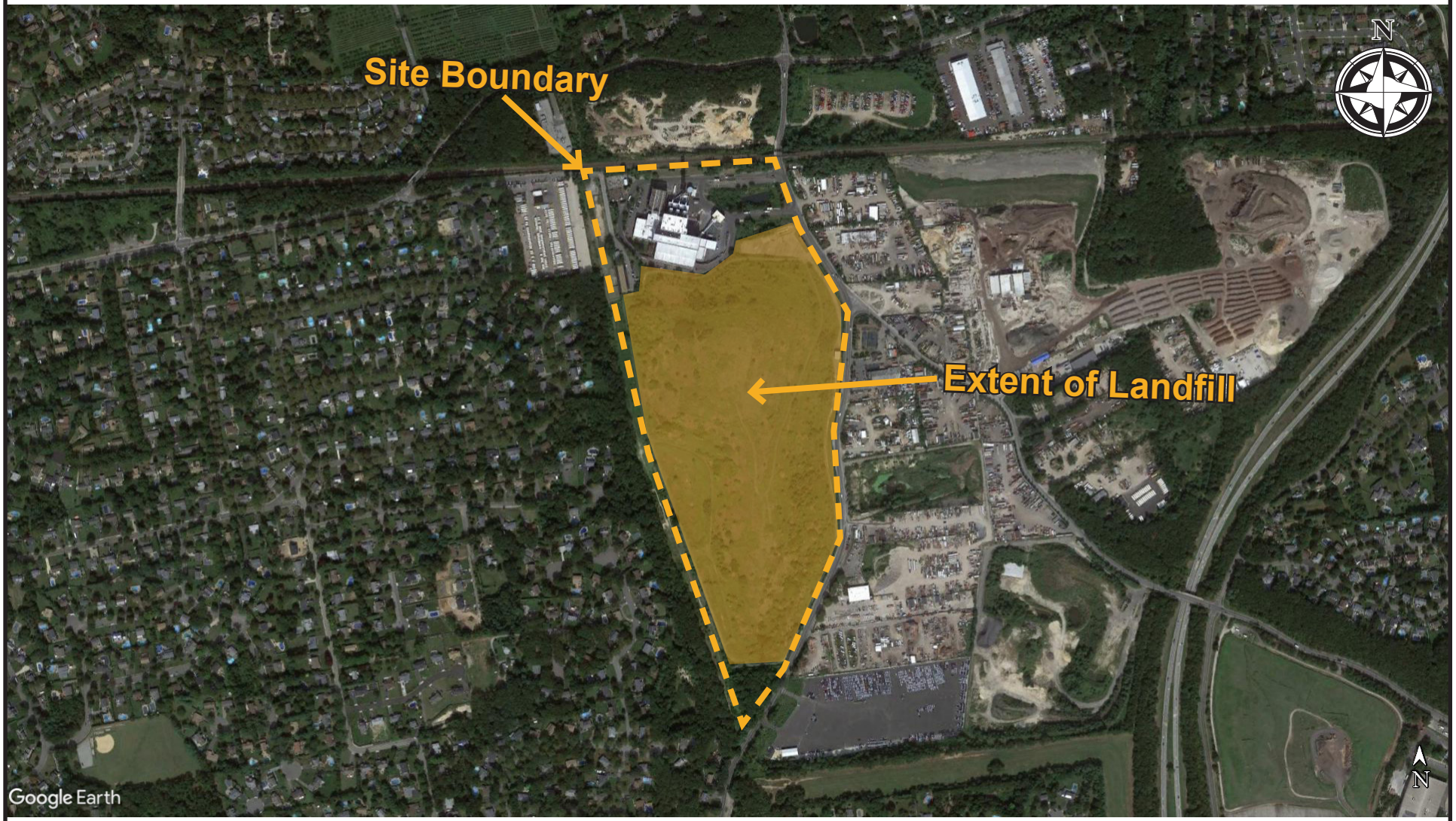
This report presents the field and analytical results obtained in support of the Groundwater and Surface Water Monitoring Program conducted during the second Semi-annual event (fourth quarter of 2023), for the East Northport Landfill, on behalf of the Town of Huntington (TOH), Department of Environmental Waste Management. Groundwater sampling was performed by D&B Engineers and Architects (D&B) on December 7-11, and December 14, 16 and 18, 2023. Surface water sampling was performed on December 21, 2023. This monitoring program is performed on a Semi-annual basis, as stipulated in the Record of Decision (ROD) (modified August 13, 2014), by the New York State Department of Conservation (NYSDEC).

1.1 Purpose

The purpose of the Semi-annual Groundwater and Surface Water Monitoring Program is to monitor the quality of groundwater and surface water in the vicinity of the East Northport Landfill, subsequent to the capping and closure of the Municipal Solid Waste (MSW) and Construction and Demolition debris (C&D) Landfill.

1.2 Site Location and Description

The East Northport Landfill is an unlined, capped MSW and C&D landfill, owned by the Town of Huntington (TOH). The landfill is located at 99 Townline Road in East Northport, Town of Huntington, New York (see **Figure 1-1**). The landfill property is approximately 44 acres in area and located on an approximately 52-acre triangular shaped parcel which coincides with border between the towns of Huntington and Smithtown. The landfill is bounded by Townline Road to the east and south which is followed by commercial use land. Covanta of Huntington, which is an active Waste-to-Energy facility, adjoins the landfill to the north followed by the Long Island Railroad which bounds the facility to the north, and is followed by commercial use land. To the



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99 TOWN LINE ROAD
EAST NORTHPORT, NY 11731

SITE LOCATION MAP

Figure 1-1

Figure 1-1 Site Location Map.indd (07/23/21 - 10:09 AM)

west, the landfill is bounded by a utility right-of-way owned by PSEG Long Island. Residential homes are located further to the west.

Prior to the early 1930s, the land now occupied by the East Northport Landfill was farmland. By 1935, sand mining operations along with disposal of MSW were ongoing on the west side of Townline Road, where the landfill currently exists.

In 1955, the first of three incinerators was constructed at the northern end of the complex. The incinerators ceased operations and were decommissioned in the Summer of 1989.

The types of wastes generally accepted at the landfill site were MSW and C&D. There is no historical evidence of the disposal of large amounts of highly toxic materials, drummed wastes, or petroleum hydrocarbons.

The East Northport Landfill was listed in the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites in December 1983. There have been numerous studies of the landfill, including a NYSDEC Phase I Investigation completed in December 1985. The site was classified a Class 2 (significant threat to public health or environment – action required) in December 1986.

An Order on Consent between the TOH and the NYSDEC requiring a remedial investigation program was executed on March 20, 1991. The TOH and the NYSDEC, under the State Superfund Program, initiated a Remedial Investigation and Feasibility Study (RI/FS) in September 1991, to address the contamination at the site.

Due to landfill leachate migrating into the groundwater beneath the site, there have been three phases of providing public water to residents whose wells were impacted or threatened by the contaminated groundwater. Phases I and II occurred between 1986 and 1989 prior to the start of the Remedial Investigation (RI) at the site. Phase III occurred in 1993.

To comply with NYSDEC regulations, TOH initiated a methane gas monitoring and control program at the landfill in 1978. Later, an active gas control system was installed in phases around the entire landfill with two blower stations controlling gas collection.

Landfilling of MSW ceased at the landfill in September 1989. In December of 1991, the site boundary was modified to exclude the 12-acre leasehold property, that is now occupied by Covanta of Huntington's Waste-to-Energy plant. Between late fall 1990 and August 1993, the landfill was completely regraded in preparation for construction of the final cover system. Areas of the landfill that have been regraded have revealed no unexpected waste disposal material or practices. The design of a final covering or "cap" system for the landfill was submitted to NYSDEC and approved in August 1994.

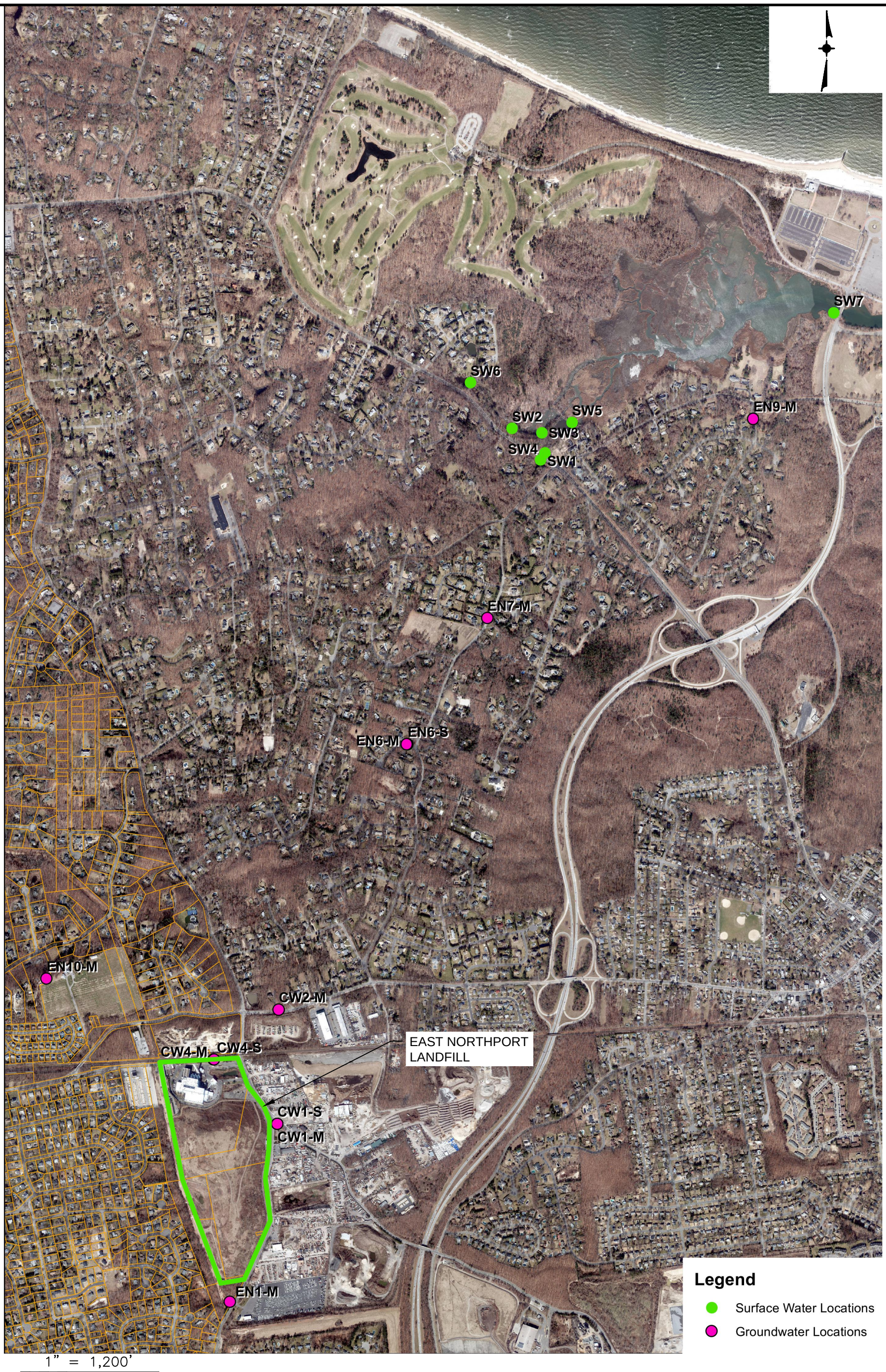
1.3 Report Format

This Semi-annual Groundwater and Surface Water Monitoring Program Report includes a discussion of the sample locations, sampling procedures, laboratory analyses, field and analytical results, including a comparison of the analytical results of this fourth quarter 2023 sampling event to applicable New York State groundwater and surface water quality standards and guidelines, as well as data validation, conclusions and recommendations.

2.0 SAMPLING LOCATIONS

The groundwater monitoring well network for the East Northport Landfill consists of eleven wells. The locations of the groundwater monitoring wells are shown on **Figure 2-1.** All eleven wells were sampled as part of the second Semi-annual (fourth quarter 2023) sampling event. Well construction information for these wells are summarized on **Table 2-1.**

Additionally, a total of seven surface water locations, SW-1 through SW-7, were sampled. The surface water sample locations were collected from Sunken Meadow Creek which is a local discharge zone for shallow groundwater located approximately 10,000 feet hydraulically downgradient from the East Northport Landfill. The surface water sample locations are shown on **Figure 2-1.**



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EAST NORTHPORT, NY 11731

GROUNDWATER MONITORING WELL AND SURFACE WATER SAMPLE LOCATIONS

FIGURE 2-1

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Table 2-1

EAST NORTHPORT LANDFILL
SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM
SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS

Well Designation	Well Diameter (inches)	Total Depth (feet bls.)	Screen Setting (elevation relative to msl.)	Elevation of Measuring Point (feet above msl)	Well location Relative to Groundwater Flow Direction from the Site
CW1-S	6	80	43 to 37	112.92	Cross gradient
CW1-M	6	92	24.5 to 18.5	111.68	Cross gradient
CW2-M	4	117	19.5 to 13.5	130.57	Downgradient
CW4-S	4	117	36* to 30	147.19	Downgradient
CW4-M	4	148	-1.5 to -7.5*	146.94	Downgradient
EN1-M	4	176	-32 to -52	124.24	Upgradient
EN6-S	4	115	39 to 19	133.80	Downgradient
EN6-M	4	180	-27 to -47	132.62	Downgradient
EN7-M	4	230	-166 to -176	54.17	Downgradient
EN9-M	4	135	-94 to -104	31.28	Downgradient
EN10-M	4	440	-141 to -161	259.10	Downgradient

Notes:
*Screen length unavailable, screen length assumed to be 6 feet, based on known screen length of remaining CW monitoring wells.
bls: below land surface
msl: mean sea level
Source: Remedial Investigation of the East Northport Landfill (1994)

3.0 SAMPLING PROCEDURES AND ANALYSES

Dedicated and disposable sampling equipment was used whenever possible. Field decontamination was performed between sampling locations for non-disposable equipment. The following sections provide a brief discussion of the procedures used during groundwater level measurements, groundwater and surface water sampling and sample analysis.

3.1 Groundwater Level Measurement Procedures

Water level measurements were obtained from the monitoring wells to determine the volume of standing water in the well for purposes of purging. Groundwater level measurements were obtained from a surveyed measuring point on each well using a decontaminated electronic water level indicator to an accuracy of 0.01 foot.

3.2 Sampling Procedures

Prior to collecting groundwater samples, the monitoring wells were purged to remove the standing water in the well. Well purging was accomplished by first measuring the static water level in the well and calculating the standing water volume. A decontaminated 2-inch Grundfos submersible pump and dedicated tubing was used to purge the water from the all the wells, with exception of EN1-M and EN7-M.

Sampling protocol was modified at groundwater monitoring wells EN1-M, EN7-M, and EN10-M, to conform with NYSDEC's groundwater sampling protocols for emergent contaminants (Sampling Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Part 375, June 2021). Sampling protocols were changed due to the prevalence of PFAS in consumer products and standard groundwater sampling equipment. Groundwater monitoring wells EN1-M and EN7-M were sampled using low-flow sampling equipment including, a PFAS free bladder pump, dedicated disposable bladders, and dedicated high-density polyethylene (HDPE) tubing. Low-flow purging and sampling with the bladder pump was not possible at well EN10-M because the depth-to-water at this location (over 200' below grade) is greater than the operational

limit of the equipment. Therefore, EN10-M was purged utilizing a 2-inch Grundfos submersible pump connected to HDPE tubing and collected via a decontaminated stainless-steel bailer.

During the purging process, a calibrated Horiba water quality meter was utilized to monitor groundwater and record the following field parameters: pH, temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen, salinity and turbidity. At locations purged with a submersible pump, well purging was completed when the values of the field parameters stabilized within 10% for three consecutive readings, the turbidity of the groundwater was less than 50 Nephelometric Turbidity Units (NTUs), and at least three well volumes had been removed. At locations purged using low-flow sampling procedures (i.e., bladder pump), well purging was completed after the minimum discharge tubing volume was evacuated, the turbidity of the groundwater was less than 50 Nephelometric Turbidity Units (NTUs) and the values of the field parameters stabilized for three consecutive readings, in accordance with low flow purging protocols.

Groundwater samples collected from wells purged with a submersible pump and not analyzed for emergent contaminants were sampled using new, dedicated, disposable HDPE bailers. A decontaminated stainless-steel bailer was used to collect the groundwater sample from well EN10-M. Groundwater samples from wells EN1-M and EN7-M were collected from the HDPE tubing directly into laboratory supplied sample bottles. At each monitoring well, samples for Volatile Organic Compounds (VOCs) analysis were collected first, followed by inorganic parameters and leachate indicators. Groundwater samples were stored in an ice-filled cooler with the chain of custody forms and delivered to the analytical laboratory. Samples that were analyzed for Emerging Contaminants were segregated into separate coolers and did not come into contact with sample bottles for different parameters.

Surface water samples were collected by carefully lowering a decontaminated hand dipper directly beneath the surface water and gently transferring the sample into laboratory supplied sample containers. Samples for VOCs analysis were collected first, followed by select leachate indicators. Surface water samples were stored in an ice-filled cooler with the chain of custody forms and delivered to the analytical laboratory. After collecting each surface water sample, a

calibrated Horiba water quality meter was utilized to record the following field parameters: pH, temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen, salinity and turbidity.

As part of the groundwater and surface water sampling program, appropriate quality assurance/quality control (QA/QC) samples, which included a field blank, matrix spike and matrix spike duplicate (MS/MSD) sets and daily trip blanks were collected. The daily trip blank accompanied all laboratory sample coolers.

Analytical results for groundwater samples are provided in **Appendices A-1** through **A-4**, and a discussion of the results is provided in **Section 4.0**. Historical groundwater sampling analysis results are provided in **Appendix B.**

Analytical results for surface water samples are provided in **Appendix C-1** and **Appendix C-2.** Historical surface water sampling analysis results are provided in **Appendix D.**

Field observation logs for the sampling event are contained in **Appendices E**. The chain of custody forms are provided in **Appendix F**.

3.3 Sample Analyses

3.3.1 Groundwater Analyses

Groundwater samples collected during the second Semi-annual (fourth quarter 2023) sampling event from the 11 groundwater monitoring wells were analyzed for Target Compound List (TCL); Volatile Organic Compounds (VOCs); select Inorganic Parameters (aluminum, arsenic, cadmium, calcium, chromium, iron, lead, magnesium, mercury, potassium and sodium); and select Leachate Indicator Parameters (alkalinity/bicarbonate, ammonia, nitrate, chloride, sulfate, total dissolved solids and hardness).

In addition, groundwater samples collected from monitoring wells EN1-M, EN7-M and EN10-M were analyzed for NYSDEC Emerging Contaminants; Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane.

Other parameters, such as pH, temperature, specific conductance, ORP, turbidity, dissolved oxygen and salinity, were measured in the field for groundwater samples collected from each of the monitoring wells.

3.3.2 Surface Water Analyses

The seven surface water samples collected were analyzed for TCL VOCs and the select Leachate Indicator Parameters (alkalinity/bicarbonate, ammonia, nitrate, chloride, sulfate, total dissolved solids and hardness).

Other parameters, such as pH, temperature, specific conductance, ORP, turbidity, dissolved oxygen and salinity, were measured in the field for surface water samples collected from each of the surface water locations.

4.0 ANALYTICAL RESULTS

4.1 Field Parameters

The final field parameter values and field data measured for groundwater and surface water for the second Semi-annual (fourth quarter 2023) sampling event are provided in **Table 4-1** and **Table 4-2**.

4.2 Monitoring Well Groundwater Results

The analytical results for the groundwater samples collected from the monitoring wells compared to NYSDEC Class GA groundwater standards and guidance values and Preliminary Target Levels (PTL)/Drinking Water Standards (DWS) for Emerging Contaminants are provided in **Appendices A-1** through **A-4**. Historical groundwater results from 1996 to the previous sampling event for the monitoring wells are provided in **Appendix B**.

4.2.1 Volatile Organic Compounds

The analytical results for the VOCs analyses are presented in **Appendix A-1**. VOCs were not detected at or above NYSDEC Class GA groundwater standards and guidance values in any of the collected groundwater samples.

4.2.2 Inorganic Parameters

Tabulated analytical results for select inorganic parameters for the monitoring wells are presented in **Appendix A-2**. Discussion of these parameters that were detected in monitoring wells at concentrations exceeding NYSDEC Class GA groundwater standards and guidance values, as well as for comparison of results from upgradient well EN1-M are discussed below:

Table 4-1

EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
SECOND SEMI-ANNUAL GROUNDWATER SAMPLING-FOURTH QUARTER 2023
SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA

Monitoring Well	pH (Standard Units)	Temperature (°C)	Specific Conductance (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/l)	Salinity (ppt)	PID (ppm)	Purging Method
CW1-S	6.65	6.65	0.997	0.0	-173	5.56	0.5	0.0	Submersible Pump
CW1-M	6.60	17.87	0.333	0.0	-126	5.08	0.2	0.0	Submersible Pump
CW2-M	5.15	14.10	0.249	0.0	108	5.94	0.1	0.0	Submersible Pump
CW4-S	5.83	16.03	0.290	16.2	109	6.00	0.1	0.0	Submersible Pump
CW4-M	5.88	13.82	0.340	0.0	183	9.67	0.2	0.0	Submersible Pump
EN1-M	6.15	12.38	0.402	0.0	135	9.22	0.2	0.0	Bladder Pump
EN6-S	5.12	12.64	0.437	0.0	229	9.26	0.3	0.0	Submersible Pump
EN6-M	5.85	13.03	0.591	0.0	164	7.07	0.3	0.0	Submersible Pump
EN7-M	6.22	12.29	0.403	0.0	128	9.63	0.2	0.0	Bladder Pump
EN9-M	5.90	11.62	1.17	0.0	179	9.16	0.6	0.0	Submersible Pump
EN10-M	5.99	14.82	0.178	3.3	254	6.32	0.1	0.0	Submersible Pump

Table 4-1(Continued)

EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
SECOND SEMI-ANNUAL GROUNDWATER SAMPLING- FOURTH QUARTER 2023
SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA

Monitoring Well	Initial Depth to Water (in feet)	Depth of Well (in feet)	Well Diameter (inches)	Volume of Water Purged (gallons)	Date of Sampling	Time of Sampling	Initials of Samplers	Weather Condition
CW1-S	58.63	77.54	6	250	12/6/2023	1:30 PM	DS + CA	Cloudy 30°F
CW1-M	60.65	104.60	6	250	12/6/2023	2:33 PM	DS + CA	Cloudy 30°F
CW2-M	81.78	116.51	4	100	12/6/2023	4:05 PM	DS + CA	Cloudy 30°F
CW4-S	96.69	117.00	4	60	12/7/2023	10:45 AM	DS + JB	Sunny 40°F
CW4-M	96.48	148.00	4	120	12/7/2023	9:15 AM	DS + JB	Sunny 40°F
EN1-M	67.40	176.00	4	20 (liters)	12/8/2023	10:45 AM	DS + CA	Sunny 32°F
EN6-S	99.17	113.95	4	70	12/7/2023	1:20 PM	DS + CA	Sunny 40°F
EN6-M	98.08	174.00	4	175	12/7/2023	2:35 PM	DS + JB	Sunny 40°F
EN7-M	27.44	223.74	4	30 (liters)	12/11/2023	3:30 PM	CA	Mostly Cloudy 32° F
EN9-M	27.65	13360	4	200	12/7/2023	3:55 PM	DS + JB	Sunny 40°F
EN10-M	213.15	416.00	4	525	12/14/2023	4:20 PM	DS	Sunny 45°F

Notes:

Final field parameter readings were measured upon completion of sample collection.

°C:	Degrees Celsius	DO:	Dissolved Oxygen
mS/cm:	Millisiemens Per Centimeter	msl:	Mean Sea Level
NTU:	Nephelometric Turbidity Unit	ppt:	Parts Per Thousand
mV:	Millivolt	PID:	Photoionization Detector
mg/l:	Milligrams Per Liter	ppm:	Parts Per Million
ORP	Oxidation Reduction Potential		

Table 4-2

EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
SECOND SEMI-ANNUAL 2021 SURFACE WATER SAMPLING-FOURTH QUARTER 2023
SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA

Monitoring Location	pH (Standard Units)	Temperature (°C)	Specific Conductance (mS/cm)	Turbidity (NTUs)	ORP (mV)	DO (mg/l)	Salinity (ppt)
SW-1	7.37	8.34	0.336	0.0	199	11.88	0.2
SW-2	6.79	7.16	2.70	0.0	223	13.08	1.4
SW-3	6.84	6.02	6.85	0.0	157	9.84	4.3
SW-4	7.92	8.09	1.09	0.0	204	12.55	0.5
SW-5	7.99	7.03	0.457	0.0	154	12.50	0.3
SW-6	7.07	4.10	0.133	15	201	24.19	0.1
SW-7	6.57	7.59	40.6	0.0	284	12.01	25.0

Notes:

Final field parameter readings were measured upon collection of the sample.

°C:	Degrees Celsius	DO:	Dissolved Oxygen
mS/cm:	Millisiemens Per Centimeter	ppt:	Parts Per Thousand
NTU:	Nephelometric Turbidity Unit		
mV:	Millivolt		
mg/l:	Milligrams Per Liter		
ORP	Oxidation Reduction Potential		

- *Arsenic* exceeded the groundwater standard (25 ug/l) in cross-gradient well CW1-S at a concentration of 74.9 ug/l. Arsenic was not detected within upgradient well EN1-M.

- *Chromium* was not detected in any groundwater monitoring wells.

- *Iron* exceeded the groundwater standard (300 ug/l) in downgradient well CW4-S at a concentration of 7,640 ug/l. Iron also exceeded the groundwater standard in cross-gradient wells CW1-S and CW1-M, at concentrations of 25,400 ug/l and 1,120 ug/l, respectively. In upgradient well EN1-M, iron exceeded the groundwater standard at a concentration of 592 ug/l.

- *Sodium* exceeded the groundwater standard (20,000 ug/l) in downgradient wells CW1-S, EN6-S, EN6-M, EN7-M, and EN9-M at concentrations ranging from 30,000 ug/l to 76,800 ug/l. Sodium exceeded the groundwater standard in cross-gradient well CW1-S at a concentration of 49,800 ug/l. In upgradient well EN1-M, sodium was not detected.

Select inorganic parameters which exceeded the Class GA groundwater standards during the prior sampling event (Second Quarter 2023) compared to the results of this sampling event is presented below:

- *Arsenic* has exceeded the groundwater standard for the second consecutive sampling event within cross-gradient well CW1-S. Arsenic was detected at a concentration of 72 ug/l during the prior sampling event and increased to a concentration of 74.9 ug/l this sampling event.

- *Cadmium* exceeded the groundwater standard within downgradient well CW4-S during the prior sampling event at concentrations of 7.06 ug/l. Cadmium was detected above the groundwater standard within downgradient well CW4-S at a concentration of 31.3 ug/l during this sampling event.

- *Chromium* was not detected in any groundwater monitoring wells during the prior sampling event and continues to be nondetectable in this sampling event. Historically upgradient well EN1-M has exceeded the groundwater standard.

- *Iron* has exceeded the groundwater standard for consecutive sampling events within cross-gradient and downgradient wells; CW1-S, CW1-M, CW2-M, and EN1-M. Iron was detected in exceedance of the groundwater standard in downgradient well EN10-M during the prior sampling event at a concentration of 3,000 ug/l, there was no exceedance in EN10-M during the current sampling event. Iron concentrations at downgradient well CW4-S continues to exceed the groundwater standard at a concentration of 7,640 ug/l during the current sampling event. This is an increase from

the prior sampling event which also exceeded the groundwater standard at a concentration of 3,140 ug/l.

- *Sodium* has exceeded the groundwater standard for consecutive sampling events at wells; CW1-S, , EN6-S, EN7-M, and EN9-M for the second consecutive monitoring event. The maximum concentration of sodium detected during this sampling event decreased to 76,800 ug/l, which was detected within EN9-M. The maximum concentration detected during the prior sampling event was 179,900 ug/l, which was detected within EN7-M. Downgradient monitoring well EN6-M exceeded the groundwater standard during this sampling event with a concentration of 38,000 ug/l, during the prior sampling event EN6-M was detected below the groundwater standard at a concentration of 11,400 ug/l.

4.2.3 Leachate Indicators

Tabulated analytical results for select leachate indicators for the monitoring wells are presented in **Appendix A-3**. Discussion of the select leachate indicators that were detected in monitoring wells at concentrations exceeding NYSDEC Class GA groundwater standards and guidance values, as well as for comparison of results from upgradient well EN1-M are discussed below:

- *Ammonia* was detected above the groundwater standard (2 mg/l) in cross gradient well CW1-S at a concentration of 28.2 mg/l. Ammonia was not detected within upgradient well EN1-M.

- *Total Dissolved Solids* were not detected above the groundwater standard (500 mg/l) in downgradient well EN7-M. Total Dissolved Solids were detected below the groundwater standards at upgradient well EN1-M, at a concentration of 177 mg/l.

Select leachate indicators which exceeded the Class GA groundwater standards during the prior sampling event (Second Quarter 2023) compared to the results of this sampling event is presented below:

- *Ammonia* has exceeded the groundwater standard for the second consecutive sampling event at well CW1-S. Ammonia concentrations have increased from 10.8 mg/l during the prior monitoring event, to 28.2 mg/l during the current monitoring event.

- *Total Dissolved Solids* has not exceeded the groundwater standard at well EN7-M. Total Dissolved Solids has decreased in concentration within EN7-M in this sampling event to 333 mg/l, compared to a concentration of 814 mg/l during the prior sampling event.

4.2.4 Emerging Contaminants

Tabulated analytical results for Emerging Contaminants for the selected three (3) monitoring wells (EN1-M, EN7-M and EN10-M), are presented in **Appendix A-4.** Discussion of the individual Emerging Contaminants that were detected in monitoring wells at concentrations exceeding NYSDOH TOGS 1.1.1 Guidance Values (GV), as well as for comparison of results from upgradient well EN1-M are discussed below:

- *Perfluorooctane Sulfonic Acid (PFOS)* was detected above the NYSDOH TOGS Guidance Value (2.7 ng/l) in downgradient well EN7-M at a concentration of 14.1 ng/l. PFOS was detected below the guidance value in upgradient well EN1-M, at a concentration of 1.86 ng/l.

- *Perfluorooctanoic Acid (PFOA)* was detected above the NYSDOH TOGS Guidance Value (6.7 ng/l) in downgradient well EN7-M at a concentration of 17 ng/l. In upgradient well EN1-M, PFOA was detected below the guidance value at a concentration of 5.34 ng/l.

- *1,4-Dioxane* was detected above the NYSDOH TOGS Guidance Value (0.35 ug/l) in downgradient well EN7-M at a concentration of 5.58 ug/l. 1,4-Dioxane was detected in upgradient well EN1-M below the drinking water standard at a concentration of 0.24 ug/l.

A comparison of Emerging Contaminant concentrations at the selected wells during the prior sampling event (second quarter 2023) compared to the results of this sampling event is presented below:

- *Perfluorooctane Sulfonic Acid (PFOS)* has exceeded the guidance value in downgradient well EN7-M for a second consecutive sampling event. PFOS concentration in well EN7-M decreased this sampling event to 14.1 ng/l, compared to a detected concentration of 36.1 ng/l during the prior sampling event.

- *Perfluorooctanoic Acid (PFOA)* has exceeded the guidance value in downgradient well EN7-M for a second consecutive sampling event. PFOA concentration in well EN7-M decreased this sampling event to 17 ng/l, compared to a detected concentration of 105 ng/l during the prior sampling event.

- *1,4-Dioxane* has exceeded the guidance value in downgradient well EN7-M for a second consecutive sampling event. 1,4-Dioxane concentration in well EN7-M decreased this sampling event to 5.58 ug/l, compared to a detected concentration of 23.6 ug/l during the prior sampling event.

- Total PFAS concentrations decreased in this sampling event compared to the prior event; EN1-M decreased from 32.12 ng/l to 28.35 ng/l, EN7-M decreased from 437.06 ng/l to 101.85 ng/l, and EN10-M decreased from 37.34 ng/l to 0.00 ng/l.

4.3 Surface Water Sampling Results

The analytical results for the surface water samples collected from Sunken Meadow Creek compared to NYSDEC Class C Surface Water Standards are provided in **Appendices C-1** and **C-2**.

4.3.1 Volatile Organic Compounds

The analytical results for the VOCs analyses are presented in **Appendix C-1**. VOCs were not detected at or above NYSDEC Class C Surface Water Standards in any of the collected surface water samples.

4.3.2 Leachate Indicators

Tabulated analytical results for the select leachate indicators for the surface water samples are presented in **Appendix C-2**. Consistent with prior sampling events, Leachate Indicators were not detected at or above NYSDEC Class C Surface Water Standards in any of the collected surface water samples.

5.0 DATA VALIDATION

The December 2023 sampling event for the East Northport SA Landfill included the collection of a total of 11 groundwater and seven surface waters. The samples were analyzed for modified baseline parameters, which consist of the NYCRR Part 363 baseline parameters. Laboratory analyses were performed by York Analytical Laboratories, Richmond Hills, NY. All analyses were performed in accordance with United States Environmental Protection Agency (USEPA) SW-846 and New York State Department of Environmental Conservation (NYSDEC) 6/05 Analytical Services Protocol (ASP) methodologies as specified in NYCRR Part 363. Three groundwater samples were also sent to York Analytical Laboratories, Richmond Hills, NY for per- and polyfluoroalkyl substances and 1,4-dioxane.

Nine data packages (23L0558, 23L0639, 23L0644, 23L0648, 23L0785, 23L0806, 23L0901, 23L1187, and 23L1191) have been reviewed in accordance with the NYSDEC 7/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. Data Validation Checklists were prepared for each data package and are presented in **Appendix B**.

The findings of the validation process are presented below.

- Chloroform was detected in the field blank in data package 23L0806. It was qualified as non-detect (UB) in the samples EN1-M, EN10-M, CW-4M and EN-6S.
- The percent recoveries (%Rs) were below the quality control (QC) limits in the matrix spike (MS), MS duplicate (MSD), laboratory control sample (LCS) and/or and LCS duplicate (LCSD) for 2-chloroethylvinyl ether and tetrachloroethene. They were qualified as estimated (UJ/J) in all samples in data packages 23L0558, 23L0639, 23L0644, 23L0806, 23L0901, and 23L1187.
- The %Rs were outside the QC limits perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), 3-perfluoropropyl propanoic acid (FPrPA) and perfluoro-5-oxahexanoic acid (PFMBA) in the LCS. They were qualified as an estimated limit (UJ) in sample EN10-M.
- The %Rs were outside the QC limits for perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), perfluoro-5-oxahexanoic acid (PFMBA), and perfluorotridecanoic acid (PFTrDA) in LCS associated with all samples in data package 23L0785 and were qualified as estimated (J/UJ).

- The %Rs were outside the QC limits for 3-perfluoropropyl propanoic acid (FPrPA), N-EtFOSA, and 3-perfluoroheptyl propanoic acid (FHpPA) in LCS associated with sample EN7-M and were qualified as estimated (J/UJ).

- The %Rs were outside the QC limits for perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), N-EtFOSA, perfluoro-5-oxahexanoic acid (PFMBA), and perfluorotridecanoic acid (PFTrDA) in the LSC, LSCD, MS and/or MSD. They were qualified as an estimated limit (UJ) in sample EN1-M.

- The surrogate %Rs were outside QC limits, detected and qualified as estimated (J): perfluoroheptanoic acid (PFHpA) in sample EN7-M; perfluoropentanoic acid (PFPeA) and 1H,1H, 2H, 2H-perfluorooctane sulfonic acid in the Blind Duplicate; and perfluorobutanoic acid (PFBA) in samples Blind Duplicate and EN7-M.

- The RSDs were above the for 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS), and 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS), in the initial calibration. They were qualified as estimated (J/UJ) in sample EN10-M, EN1-M, and all samples in data package 23L0785.

- Sample EN7-M was field duplicated and labeled BLIND DUPLICATE. Based on field duplicate results perfluorohexanesulfonic acid (PFHxS), perfluoropentanoic acid (PFPeA), and perfluoro-n-butanoic acid (PFBA) was qualified as estimated (J) in samples EN7-M and BLIND DUPLICATE.

- The potassium was detected in the blank sample. Based on sample concentration the B qualifier was removed from sample EN10-M.

- Calcium was detected in the blank sample and field blank in data package 23L0806. Based on sample concentration the B qualifier was removed from sample EN1-M, CW-4M, CW-4S, EN6-S, and EN-9M.

- Calcium was below QC limit in the LCS. Calcium was qualified as estimated (J) in sample EN10-M.

- Sodium was above QC limits in the LCS. Sodium was qualified as estimated (J) in samples EN10-M, EN1-M, and all samples in data package 23L0558, 23L0639, and 23L0806.

- The spike and post spike %Rs were below the QC limits for aluminum, chromium, and iron for sample EN1-M and were qualified estimated bias low (JL).

- The percent differences (%Ds) were above the QC limits in the serial dilution for calcium, magnesium, and potassium associated with sample EN10-M and qualified as estimated (J).

- The duplicate relative percent differences (RPDs) were above the QC limits for aluminum, chromium, iron, and potassium for sample EN1-M and were qualified estimated (J).

- Nitrate was analyzed outside the holding time in sample EN1-M and qualified as estimated (J).
- Ammonia was detected in the field blank in data package 23L0806. Ammonia was qualified as non-detect (UB) in samples CW-1M, CW-2M, and CW-4S.
- The spike %R was below the QC limit for sulfate and was qualified estimated (J) associated with sample EN10-M, EN1-M, and data package 23L0558 and 23L0639.
- The chloride results in samples SW-1, SW-2, SW-3, SW-4, SW-5, SW-7, EN6-S, EN6-M, EN9-M, EN7-M, and CW-1S and sulfate in samples SW-2, SW-3, SW-7, and CW-1M were analyzed at a secondary dilution (D).

Based on the findings of the data validation process, all results are deemed valid and usable for environmental assessment purposes as qualified above.

6.0 GROUNDWATER LEVEL MEASUREMENTS

Groundwater level measurements were recorded in the field by D&B during the sampling event for each of the eleven respective monitoring wells. The groundwater level measurements from the monitoring wells are presented on **Table 6-1**.

Table 6-1

EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
SECOND SEMI-ANNUAL MONITORING WELL GROUNDWATER ELEVATIONS

Well Designation	Date of Elevation Measurement	Measuring Point Elevation (feet above msl)	Depth to Water from Measuring Point (feet)	Groundwater Elevation (feet above msl)
CW1-S	12/6/23	112.92	58.63	54.29
CW1-M	12/6/23	111.68	60.65	51.03
CW2-M	12/6/23	130.57	81.78	48.79
CW4-S	12/7/23	147.19	96.69	50.50
CW4-M	12/7/23	146.94	96.48	50.46
EN1-M	12/8/23	124.24	67.40	56.84
EN6-S	12/7/23	133.80	99.17	34.63
EN6-M	12/7/23	132.62	98.08	34.35
EN7-M	12/11/23	54.17	27.44	26.73
EN9-M	12/7/23	31.28	27.65	3.63
EN10-M	12/14/23	259.10	213.15	45.95

Note: MSL: Mean Seal Level

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

The results of the second Semi-annual 2023 monitoring activities summarized in this report, indicate that groundwater beneath, cross gradient, and downgradient of the East Northport Landfill remains nominally impacted and of generally consistent water quality with past events. Targeted contaminants in surface waters of Sunken Meadow Creek, the local downgradient discharge point of shallow groundwater, remain below the NYSDEC Class C surface water standards.

7.2 Recommendations

Based on the findings of the second Semi-annual 2023 groundwater and surface water sampling event, as well as historical analytical data, the following recommendations are presented:

- The monitoring frequency for the Semi-annual Groundwater and Surface Water Monitoring Program should remain on a Semi-annual basis.
- The eleven monitoring wells in the program should continue to be analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 624, select Inorganic Parameters and select Leachate Indicators.
- Monitoring wells EN1-M, EN7-M, and EN10-M should continue to be analyzed for Emerging Contaminants (PFAS and 1,4-dioxane).
- The seven surface water locations should continue to be analyzed for TCL VOCs and select Leachate Indicators.

The next Semi-annual event is scheduled for May 2024.

APPENDIX A-1

MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Appendix A - 1
East Northport Landfill
Semi-Annual Groundwater Monitoring
December 2023 Sampling Event
Monitoring Well Sample Results
Volatile Organic Compounds

Units in ug/l		Sample ID Sample Date	CW-1M 12/6/23	CW-1S 12/6/23	CW-2M 12/6/23	CW-4M 12/7/23	CW-4S 12/7/23	EN1-M 12/8/23	EN-6M 12/7/23	EN-6S 12/7/23	EN7-M 12/11/23	EN-9M 12/7/23	EN10-M 12/14/23
VOLATILE COMPOUNDS	CAS Number	NYSDEC Class GA Standard or Guidance Value											
1,1,1-Trichloroethane	**71-55-6**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	**79-34-5**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	**79-00-5**	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	**75-34-3**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	**75-35-4**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	**95-50-1**	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	**107-06-2**	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	**78-87-5**	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	**541-73-1**	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	**106-46-7**	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloroethyl vinyl ether	**110-75-8**	--	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Benzene	**71-43-2**	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	**75-27-4**	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	**75-25-2**	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	**74-83-9**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	**56-23-5**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	**108-90-7**	5	0.5 U	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	**75-00-3**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	**67-66-3**	7	0.5 U	0.5 U	0.5 U	0.75 UB	0.5 U	1.1 UB	0.5 U	0.72 UB	0.5 U	0.5 U	0.7 UB
Chloromethane	**74-87-3**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	**156-59-2**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	**10061-01-5**	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	**124-48-1**	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	**75-71-8**	5	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	**100-41-4**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	**75-09-2**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	**127-18-4**	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.64 J	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Toluene	**108-88-3**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	**156-60-5**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	**10061-02-6**	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	**79-01-6**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	**75-69-4**	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	**75-01-4**	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	**1330-20-7**	5	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Total Volatile Organic Compounds		--	0	1.4	0	0.75	0	1.1	0.64	0.72	0	0	0.7

Footnotes/Qualifiers:
ug/l: Micrograms per liter J: Estimated limit
--: No standard or not analyze U: Compound was analyzed for but not detected

D&B ENGINEERS AND ARCHITECTS

APPENDIX A-2

MONITORING WELL SAMPLE RESULTS
INORGANIC PARAMETERS

Appendix A-2
East Northport Landfill
Semi-Annual Groundwater Monitoring
December 2023 Sampling Event
Monitoring Well Sample Results
Total Metals

Units in ug/l		Sample ID Sample Date	CW-1M 12/6/23	CW-1S 12/6/23	CW-2M 12/6/23	CW-4M 12/7/23	CW-4S 12/7/23	EN1-M 12/8/23	EN-6M 12/7/23	EN-6S 12/7/23	EN7-M 12/11/23	EN-9M 12/7/23	EN10-M 12/14/23
METALS	CAS Number	NYSDEC Class GA Standard or Guidance Value											
Aluminum	7429-90-5	--	107	199	55.6 U	55.6 U	2460	76.1 JL	55.6 U	55.6 U	182	55.6 U	55.6 U
Arsenic	7440-38-2	25	1.11 U	***74.9***	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	1.17	1.11 U	1.11 U
Cadmium	7440-43-9	5	0.556 U	0.556 U	0.62	0.556 U	***31.3***	0.556 U	0.556 U	0.556 U	0.556 U	0.556 U	0.556 U
Calcium	7440-70-2	--	19500	48400	13100	24300	19700	24800	29900	15600	37200	31000	13200 J
Chromium	7440-47-3	200	5.56 U	5.56 U	5.56 U	5.56 U	15.6	80.1 JL	5.56 U	5.56 U	5.56 U	5.56 U	5.56 U
Iron	7439-89-6	300	***1120***	***25400***	278 U	278 U	***7640***	***592 JL***	278 U	278 U	643	278 U	278 U
Lead	7439-92-1	25	2.72	***65.6***	1.11 U	1.62	***49***	1.11 U	1.11 U	1.11 U	1.85	1.11 U	1.77
Magnesium	7439-95-4	35000	12100	12800	3710	9050	6970	9440	9270	6780	8390	16400	5390 J
Mercury	7439-97-6	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Potassium	7440-09-7	--	2600	28300	3930	1440	4000	1680 J	2720	2730	12100	2580	1760 J
Sodium	7440-23-5	20000	6790 J	***49800 J***	10900 J	12400 J	11600 J	15800 J	***38000 J***	***30000 J***	***43000 J***	***76800 J***	16700 J

Footnotes/Qualifiers:

ug/l	Micrograms per liter
U	Compound was analyzed for but not detected
UB	Nondetect based on blank results
J	Estimated value
JL	Estimated low
--	No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

APPENDIX A-3

MONITORING WELL SAMPLE RESULTS
LEACHATE INDICATORS

Appendix A-3
East Northport Landfill
Semi-Annual Groundwater Monitoring
December 2023 Sampling Event
Monitoring Well Sample Results
Leachate Indicator Parameters

Units in mg/l		Sample ID Sample Date	CW-1M 12/6/23	CW-1S 12/6/23	CW-2M 12/6/23	CW-4M 12/7/23	CW-4S 12/7/23	EN1-M 12/8/23	EN-6M 12/7/23	EN-6S 12/7/23	EN7-M 12/11/23	EN-9M 12/7/23	EN10-M 12/14/23
LEACHATE INDICATORS	CAS Number	NYSDEC Class GA Standard or Guidance Value											
Alkalinity, Carbonate	ALK	--	52	330	20	52	32	35	51	20	200	34	20
Ammonia, as N	7664-41-7	2	0.0587 UB	***28.2***	0.051 UB	0.05 U	0.171 UB	0.05 U	0.05 U	0.05 U	8.37	0.05 U	0.05 U
Chloride	16887-00-6	250	21	52.5 D	32.3	38.3	35	47	90.4 D	63.9 D	61.3 D	229 D	27.4
Hardness	HARD	--	109	192	53.3	98	77.9	101	113	66.9	128	145	55.2
Nitrate	14797-55-8	10	0.0858	0.0763	4.24	6.12	3.95	7.23 J	3.91	6.25	0.0756	1.37	5.73
Sulfate	14808-79-8	250	53 DJ	39.3 J	18.3 J	25.8 J	18.7 J	29 J	24.1 J	23.6 J	25.7	16.5 J	24.4 J
Total Dissolved Solids	E-10173	500	184	409	153	206	157	177	302	221	333	481	147

Footnotes/Qualifiers:

mg/l	Milligrams per liter
U	Compound was analyzed for but not detected
UB	Nondetect based on blank results
J	Estimated detection limit or value
D	Detected in at a secondary dilution
--	No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

APPENDIX A-4

MONITORING WELL SAMPLE RESULTS
EMERGING CONTAMINANTS

Appendix A-4
East Northport Landfill
Semi-Annual Groundwater Monitoring
December 2023 Sample Results
Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane

		Sample ID Sample Date	EN1-M 12/8/2023	EN7-M 12/11/2023	EN-10M 12/14/2023
PFAS in ng/l	CAS Number	Guidance Value			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	**763051-92-9**	**--**	7.56 U	7.56 U	7.83 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	**39108-34-4**	**--**	7.68 UJ	7.68 UJ	7.95 UJ
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	**757124-72-4**	**--**	7.5 UJ	7.5 UJ	7.76 UJ
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	**27619-97-2**	**--**	7.6 U	1.37 J	7.87 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	**914637-49-3**	**--**	25 U	25 U	25.9 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	**812-70-4**	**--**	25 U	25 UJ	25.9 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	**356-02-5**	**--**	5 U	5 UJ	5.18 UJ
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	**919005-14-4**	**--**	7.56 U	7.56 U	7.83 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	**756426-58-1**	**--**	7.48 U	7.48 U	7.74 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	**13252-13-6**	**--**	8 U	8 U	8.28 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	**4151-50-2**	**--**	2 UJ	2 UJ	2.07 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**2991-50-6**	**--**	2 U	2.68	2.07 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	**1691-99-2**	**--**	20 U	20 U	20.7 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	**31506-32-8**	**--**	2 U	2 U	2.07 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**2355-31-9**	**--**	2 U	2 U	2.07 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	**24448-09-7**	**--**	20 U	20 U	20.7 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	**151772-58-6**	**--**	4 U	4 U	4.14 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	**113507-82-7**	**--**	3.56 U	3.56 U	3.69 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	**377-73-1**	**--**	4 UJ	4 UJ	4.14 UJ
Perfluoro-4-methoxybutanoic acid (PFMBA)	**863090-89-5**	**--**	4 UJ	4 UJ	4.14 UJ
Perfluorobutanesulfonic acid (PFBS)	**375-73-5**	**--**	0.709 J	2.79	1.83 U
Perfluorobutanoic Acid	**375-22-4**	**--**	8 UJ	22.9 J	8.28 UJ
Perfluorodecanesulfonic acid (PFDS)	**335-77-3**	**--**	1.93 U	1.93 U	2 U
Perfluorodecanoic acid (PFDA)	**335-76-2**	**--**	2 U	2 U	2.07 U
Perfluorododecanesulfonic acid (PFDoS)	**79780-39-5**	**--**	1.94 U	1.94 U	2.01 U
Perfluorododecanoic acid (PFDoA)	**307-55-1**	**--**	2 U	2 U	2.07 U
Perfluoroheptanesulfonic acid (PFHpS)	**375-92-8**	**--**	1.91 U	1.91 U	1.98 U
Perfluoroheptanoic acid (PFHpA)	**375-85-9**	**--**	2.11	7 J	2.07 U
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**--**	9.08	3.97 J	1.89 U
Perfluorohexanoic acid (PFHxA)	**307-24-4**	**--**	5.71	19.2	2.07 U
Perfluorononanesulfonic Acid (PFNS)	**68259-12-1**	**--**	1.92 U	1.92 U	1.99 U
Perfluorononanoic acid (PFNA)	**375-95-1**	**--**	2 U	0.942 J	2.07 U
Perfluorooctane Sulfonamide (PFOSA)	**754-91-6**	**--**	2 U	2 U	2.07 U
Perfluorooctanesulfonic acid (PFOS)	**1763-23-1**	**2.7 GV**	1.86 U	***14.1***	1.93 U
Perfluorooctanoic acid (PFOA)	**335-67-1**	**6.7 GV**	5.34	***17***	2.07 U
Perfluoropentanesulfonic Acid (PFPeS)	**2706-91-4**	**--**	1.88 U	1.23 J	1.95 U
Perfluoropentanoic Acid (PFPeA)	**2706-90-3**	**--**	5.41	8.67 J	4.14 U
Perfluorotetradecanoic acid (PFTeDA)	**376-06-7**	**--**	2 UJ	2 U	2.07 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	**72629-94-8**	**--**	2 U	2 UJ	2.07 U
Perfluoroundecanoic Acid (PFUnA)	**2058-94-8**	**--**	2 U	2 U	2.07 U
Total PFAS		**--**	28.359	101.85	0
1,4-Dioxane (P-Dioxane) In ug/L	**123-91-1**	**0.35 GV**	0.304	***5.58***	0.3 U

Exceeds Guidance Value

--: No standard

GV: Guidance Values as per 2023 ADDENDUM TO JUNE 1998 DIVISON OF WATER TECHNICAL AND
OPERATIONAL GUIDANCE SERIES (TOGS) NO. 1.1.1

ng/l: Nanogram per liter
ug/l: Micrograms per liter
U: Analyzed for but not detected
J: Estimated value or limit

APPENDIX B

HISTORICAL GROUNDWATER RESULTS

Table 2

Summary of Analytical Results-Groundwater
East Northport Landfill, East Northport, NY
Sampled October 22-23, 2020

Volatile Organic Compounds

Reported in Micrograms per Liter

Parameter	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	DUP	TB-GW	FB-1	NYSDEC Class GA Standard
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	NS/GV
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	5.0
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	2.0
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	5.0
Methylene Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	5.0
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	5.0
trans-1,2-Dichloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	5.0
Chloroform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	1.1	ND(1.00)	0.58 J	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	7.0
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	0.6
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	5.0
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	50.0 GV
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	1.0
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	0.4*
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	1.0
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	50.0 GV
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	0.4*
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	1.0
2-Chloroethyl vinyl Ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	NS/GV
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	50.0 GV
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.00)	ND(1.00)	ND(1.50)	0.29 J	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	5.0
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
Chlorobenzene	ND(3.50)	1.20 J	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	5.0

Table 2 continued

Parameter	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	DUP	TB-GW	FB-1	NYSDEC Class GA Standard
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	3.0
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	3.0
1,4-Dichlorobenzene	ND(5.00)	0.29 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	3.0
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	5.0 J	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	50.0 GV
Tert-Butyl Alcohol	ND(100.00)	13.00 J	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	NS/GV
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	5.0

Note:
ND( ): Compound not detected at the reporting limit
NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)
GV: NYSDEC Guidance Value for Source of Drinking Water
NS/GV: No NYSDEC Standard or Guidance Value Established
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
*Standard of 0.4 applies to sum of cis and trans 1,3-Dichloropropene
B: The analyte was found in an associated blank, as well as in the sample

Table 2A

Summary of Analytical Results-Groundwater
East Northport Landfill, East Northport, NY
Sampled October 22-23, 2020

Metals and Leachate Indicators

Reported in Micrograms per Liter (µg/l) and Milligrams per Liter (mg/l)

Metals (µg/l)	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	GW-DUP	NYSDEC Class GA Standard
Aluminum	79.0 J	63.0 J	127.0	ND(100.0)	ND(100.0)	132.0	139.0	ND(100.0)	285.0	ND(100.0)	3,730.0	53.0 J	NS/GV
Arsenic	ND(5.0)	**44.0**	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	4.0 J	ND(5.0)	25.0
Cadmium	ND(5.0)	ND(5.0)	1.0 J	2.0 J	ND(5.0)	**100.0 J**	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	5.0
Calcium	19,500.0	36,800.0	19,900.0	9,850.0	22,200.0	5,090.0	13,900.0	21,100.0	13,900.0	22,400.0	6,750.0	19,200.0	NS/GV
Chromium	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	5.0 J	ND(10.0)	**217.0**	7.0 J	ND(10.0)	2.0 J	9.0 J	ND(10.0)	50.0
Iron	92.0	**18,400.0**	197.0	131.0	42.0 J	**2,160.0**	**1,750.0**	103.0	**335.0**	**572.0**	**6,460.0**	117.0	300.0
Lead	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	**185.0**	ND(10.0)	25.0
Magnesium	12,000.0	13,600.0	5,050.0	2,040.0	8,823.0	1,040.0	6,210.0	4,690.0	2,620.0	12,000.0	2,430.0	11,900.0	35,000.0 GV
Mercury	ND(0.2)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.7
Potassium	2,430.0 J	31,600.0	8,260.0	6,520.0	1,340.0 J	6,010.0	2,460.0 J	2,690.0	3,640.0	2,500.0	3,270.0	2,390.0 J	NS/GV
Sodium	10,100.0	**69,700.0**	**21,500.0**	6,410.0	17,100.0	2,226.0	**43,900.0**	**52,300.0**	5,800.0	**43,700.0**	5,420.0	9,950.0	20,000.0
Leachate Indicators (mg/l)													
Ammonia	0.059 J	**22.30**	ND(0.075)	ND(0.075)	0.025 J	0.319	0.062 J	ND(0.075)	0.093	0.672	1.22	0.066 J	2.0
Bicarbonate	56.80	335.00	48.70	29.30	36.20	20.20	13.20	48.80	42.40	52.60	30.30	56.70	NS/GV
Chloride	18.00	56.00	34.00	11.00	32.00	4.30	70.00	74.00	8.30	100.00	7.90	18.00	250.0
Nitrate	0.31	ND(0.10)	2.200	2.100	6.030	ND(0.10)	6.360	4.980	0.686	ND(0.10)	0.368	0.316	10.0
Sulfate	38.00	39.00	28.00	5.5 J	29.00	ND(10.0)	23.00	21.00	2.0 J	17.00	2.60 J	36.00	250.0
Alkalinity	56.80	335.00	48.70	29.30	36.20	20.20	13.20	48.80	42.40	52.60	30.30	56.70	NS/GV
TDS	170.00	400.00	160.00	64.00	160.00	40.00	180.00	250.00	92.00	260.00	31.00	160.00	NS/GV
Hardness	98.20	148.00	70.50	33.00	91.30	17.00	60.30	72.00	45.50	105.00	26.90	97.00	NS/GV

Note:
ND( ): Compound not detected at the reporting limit
NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)
GV: NYSDEC Guidance Value for Source of Drinking Water
NS/GV: No NYSDEC Standard or Guidance Value Established
B: Reported value less than contract required detection limit but greater than or equal to instrument detection limit
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
na: Not available

Table 4

Summary of Analytical Results- Groundwater
East Northport Landfill, East Northport, NY
Sampled October 23, 2020

Emerging Contaminants

Reported in Nanograms per liter

Parameter	EN1-M	EN7-M	EN10-M	FB	DUP	EPA Health Advisory
1,4-Dioxane	ND(156.0)	ND(139.0)	ND(156.0)	ND(150.0)	ND(139.0)	350.0
Perfluorobutanoic Acid (PFBA)	4.53	2.32	2.54	ND(1.81)	2.33	NS/GV
Perfluoropentanoic Acid (PFPeA)	1.80 J	1.65 J	1.72 J	ND(1.81)	1.74 J	NS/GV
Perfluorobutanesulfonic Acid (PFBS)	0.440 J	1.40 J	0.388 J	ND(1.81)	1.30 J	NS/GV
Perfluorohexanoic Acid (PFHxA)	1.77 J	1.60 J	1.63 J	ND(1.81)	1.53 J	NS/GV
Perfluoroheptanoic Acid (PFHpA)	1.32 J	1.06 J	0.913 J	ND(1.81)	1.03 J	NS/GV
Perfluorohexanesulfonic Acid (PFHxS)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluorooctanoic Acid (PFOA)	1.26 J	1.22 J	1.40 J	ND(1.81)	1.32 J	70.0*
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluoroheptanesulfonic Acid (PFHpS)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluorononanoic Acid (PFNA)	0.808 J	0.353 J	0.959 J	ND(1.81)	0.416 J	NS/GV
Perfluorooctanesulfonic Acid (PFOS)	1.50 J	0.959 J	1.55 J	ND(1.81)	1.00 J	70.0*
Perfluorodecanoic Acid (PFDA)	0.611 J	ND(1.75)	0.971 J	ND(1.81)	ND(1.81)	NS/GV
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluoroundecanoic Acid (PFUnA)	ND(2.09)	ND(1.75)	0.549 J	ND(1.81)	ND(1.81)	NS/GV
Perfluorodecanesulfonic Acid (PFDS)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluorooctanesulfonamide (FOSA)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluorododecanoic Acid (PFDoA)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluorotridecanoic Acid (PFTrDA)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Perfluorotetradecanoic Acid (PFTA)	ND(2.09)	ND(1.75)	ND(1.92)	ND(1.81)	ND(1.81)	NS/GV
Total PFOA + PFOS	2.76 J	2.18 J	2.95 J	0.00	2.32 J	70.0
Total PFAS	14.039	10.562	12.620	0.00	10.666	NS/GV

*EPA established health advisory value of 70 ppt (ng/l) for the combined concentrations of PFOA and PFOS

Note: NYS Maximum Contaminant levels: PFOA (10.0 ng/l), PFOS (10.0 ng/l), 1,4-Dioxane (1.0 µg/l)

ND( ): Compound not detected at the reporting limit

EPA Health Advisory: U.S. Environmental Protection Agency Drinking Water Standards and Health Advisories (per March 2018 Edition)

NS/GV: No Standard or Guidance Value Established

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

CW1-S
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	**3.0**	**3.0**	**3.0 J**	**3.0 J**	ND(0.5)	**1.6**	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.6)	ND(0.3)	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	**10.0**	**15.0**	**11.0**	**7.0**	ND(5.0)	ND(0.6)	**9.8**	**5.3**	**6.2**
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	1.0 J	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	0.8
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		4.0	3.0	3.0 J	ND(10.0)	2.4	2.9	ND(0.3)	2.5

CW1-S (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	**2.9**	**2.4**	**2.4**	**2.2 J**	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	**1.6 J**
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.236)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	**6.5**	**6.8**	**7.0**	ND(1.0)	4.2 J	ND(0.24)	4.9 J	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	0.7	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	1.9	2.0 J	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	2.9	ND(0.3)	1.7	2.0 J	ND(1.4)	1.3 J	ND(0.30)	1.1 J	1.7 J

CW1-S (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	0.5 JB	ND(5.00)	ND(5.00)	2.0 J	3.2 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	**1.9 J**	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	**6.0**	ND(0.47)	1.7 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	1.7 J	2.20 J
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	1.5 J	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	1.0 J	1.40 J

CW1-S (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	1.30 J	ND(5.00)	2.3 J	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	0.21 J	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	2.60 J	ND(2.00)	1.50 J	1.80 J	1.30 J	1.8 J	ND(3.50)	1.80 J	1.50 J
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	0.35 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	0.99 J	0.84 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	6.60 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	8.00 J	11.00 J	9.50 J	6.0 J	ND(100.00)	10.00 J	12.00 J
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

CW1-S (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	1.70 J	2.10 J	1.70 J	2.10 J	1.8 J	1.30 J	1.40 J	2.40 J	1.30 J
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	0.56 J	ND(5.0)	ND(5.00)	ND(5.00)	0.67 J	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	8.30 J	ND(100.0)	N/A	12.00 J	17.00 J	16.00 J
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

CW1-S (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	1.60 J	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	0.39 J	ND(5.00)							
Acetone	ND(10.0)	ND(10.00)							
Tert-Butyl Alcohol	11.0J	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

CW1-S
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	180.0 B	162.0 B	44.2 B	ND(26.8)	85.4 B	ND(200.0)	49.6 B	54.1 B	124.0 B
Arsenic	**62.1**	**79.4**	**62.4**	**44.8 B**	**70.8**	**61.0**	**56.8**	**67.2**	**60.6**
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	14,500.0	27,900.0	12,800.0	15,000.0 E	25,700.0	13,600.0	12,300.0	17,500.0	17,200.0
Chromium	8.0 B	10.8	7.9 B	ND(8.3)	22.0	ND(5.0)	4.8 B	4.8 B	4.1 B
Iron	**3,570.0**	**5,760.0**	**3,690.0**	**4,540.0**	**5,900.0**	**5,270.0**	**5,450.0**	**5,800.0**	**5,510.0**
Lead	5.4	ND(1.6)	ND(1.6)	ND(1.1)	3.0	ND(4.0)	4.2	12.7	2.2 B
Magnesium	32,900.0	**47,300.0**	31,300.0	**36,700.0 E**	34,200.0 E	30,700.0	24,300.0	**37,300.0**	30,700.0
Mercury	ND(0.2)	ND(0.06)	ND(0.04)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.19 B	ND(0.1)
Potassium	263,000.0	384,000.0	239,000.0	199,000.0	228,000.0 E	177,000.0	140,000.0 E	195,000.0	194,000.0 B
Sodium	**472,000.0**	**592,000.0 E**	**480,000.0 E**	**406,000.0**	**450,000.0 E**	**360,000.0**	**271,000.0**	**420,000.0**	**442,000.0**
Leachate Indicators (mg/l)									
Ammonia	**273.000**	**343.000**	**319.000**	**280.000**	**190.000**	**243.000**	**143.000**	**190.000**	**200.000**
Bicarbonate		2,330.00	1,850.00	1,820.00	1,850.00	1,550.00	1,539.00	1,400.00	1,240.00
Chloride	**477.00**	**520.00**	5.20	**362.00**	**337.00**	**282.00**	**276.00**	240.00	**270.00**
Nitrate	3.73	0.10	ND(0.04)	ND(0.20)	ND(0.05)	ND(0.50)	ND(0.05)	ND(0.50)	ND(0.50)
Sulfate	5.00	ND(3.00)	17.40	30.00	22.50	34.00	31.20	24.00	1.80
Alkalinity	216.00	2,330.00	1,850.00	1,820.00	1,850.00	1,550.00	1,540.00	1,400.00	1,240.00
TDS	3,600.00	2,300.00	2,070.00	1,540.00	1,690.00	1,430.00	1,821.00	1,500.00	1,600.00
Hardness	44.00	263.57	160.00	188.00 E	204.00	160.00	2,000.00	200.00	170.00

CW1-S (continued)

Metals (µg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	30.1 B	ND(45.7)	ND(7.3)	26.5 B	ND(78.9)	85.7 J	56.2 J	ND(180.0)	18.2 J
Arsenic	**67.6**	**71.0**	**67.9**	**75.4**	ND(11.0)	**66.6**	**59.1**	ND(4.84)	**64.2**
Cadmium	ND(0.4)	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	22,800.0	19,300.0	19,700.0	24,700.0	11,700.0	16,200.0	16,800.0	7,410.0	25,100.0
Chromium	6.6 B	ND(5.0)	1.6 B	5.3 B	ND(1.0)	15.4	**125.0**	2.13 J	2.48 J
Iron	**4,580.0**	**5,080.0**	**5,180.0**	**6,580.0**	**721.0**	**4,750.0**	**4,370.0**	**1,400.0**	**6,690.0**
Lead	ND(2.5)	ND(3.0)	3.5	4.3	ND(3.0)	6.2	4.5 J	ND(1.79)	ND(2.18)
Magnesium	35,400.0	27,600.0	25,900.0	25,800.0	6,740.0	19,500.0	19,100.0	2,020.0 J	25,600.0
Mercury	ND(0.2)	0.25	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.07 J
Potassium	182,000.0	133,000.0	147,000.0	150,000.0	24,100.0	114,000.0	116,000.0	1,720.0 J	123,000.0
Sodium	**447,000.0**	**336,000.0**	**316,000.0**	**407,000.0**	**56,400.0**	**219,000.0**	**219,000.0**	5,850.0	**263,000.0**
Leachate Indicators (mg/l)									
Ammonia	**180.000**	**170.000**	**150.000**	**160.000**	ND(0.2)	**55.000**	**39.000**	**110.000**	**34.000**
Bicarbonate	1,400.00	1,500.00	1,300.00	1,300.00	820.00	880.00	900.00	870.00	990.00
Chloride	**260.00**	210.00	**270.00**	210.00	53.00	130.00	130.00	130.00	170.00
Nitrate	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Sulfate	7.80	31.00	20.00	2.46	28.00	34.00	28.00	12.00	17.00
Alkalinity	1,400.00	1,500.00	1,300.00	1,300.00	830.00	880.00	910.00	870.00	990.00
TDS	1,290.00	1,500.00	1,200.00	1,400.00	1,025.00	903.00	858.00	10,850.00	980.00
Hardness	200.00	160.00	160.00	170.00	57.00	121.00	120.00	27.00	168.00

CW1-S (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	109.0 J	103.0 J	9.5 J	530.0	51.0	ND(10.0)	ND(10.0)	ND(10.0)	41.3
Arsenic	**61.7**	**29.7**	**67.1**	**42.0**	**29.0**	**42.0**	**46.0**	**45.8**	**40.5**
Cadmium	ND(0.327)	ND(0.327)	0.74 J	ND(5.0)	ND(1.0)	ND(1.0))	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	27,700.0	13,400.0	16,300.0	15,700.0	12,400.0	11,600.0	9,720.0	13,800.0	15,400.0
Chromium	2.06 J	10.1	12.2	2.2 J	ND(1.0)	3.0	ND(1.0)	1.1	1.8
Iron	**6,390.0**	**13,000.0**	**6,810.0**	**19,700.0**	**14,400.0**	**3,850.0**	**2,800.0**	**1,230.0**	**5,180.0**
Lead	ND(2.18)	ND(2.18)	ND(1.6)	6.4	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	26,400.0	8,420.0	19,700.0	9,100.0	6,400.0	10,600.0	8,710.0	12,400.0	13,700.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	103,000.0	19,300.0	86,600.0	18,300.0	19,700.0	55,600.0	47,800.0	57,900.0	52,200.0
Sodium	**349,000.0**	**33,400.0**	**170,000.0**	**30,600.0**	**26,900.0**	**93,600.0**	**63,800.0**	**68,800.0**	**70,600.0**
Leachate Indicators (mg/l)									
Ammonia	**140.000**	**3.73**	**80.000**	**16.800**	**16.000**	**74.000**	**55.000**	**56.00**	**71.00**
Bicarbonate	1,000.00	190.00	ND(2.00)	170.00	150.00	517.0	404.00	451.00	454.00
Chloride	160.00	29.00	75.00	22.80	18.00	56.00	35.00	47.00	50.00
Nitrate	ND(0.50)	ND(0.50)	ND(0.50)	0.15	0.53	0.59	0.83	1.70	0.65
Sulfate	13.00	30.00	8.53	31.80	32.00	11.00	15.00	12.00	12.00
Alkalinity	1,000.00	190.00	570.00	170.00	150.00	517.00	404.00	451.00	454.00
TDS	960.00	250.00	520.00	225.00	470.00	430.00	360.00	380.00	400.00
Hardness	177.90	68.26	121.75	76.50	57.30	72.60	60.10	85.50	94.90

CW1-S (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Aluminum	ND(10.0)	6.9 B	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	66.0 J
Arsenic	**49.0**	**46.0**	**48.0**	**48.0**	**49.9**	**48.0**	**34.7**	**49.0**	**39.2**
Cadmium	0.3 B	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	27,000.0	27,500.0	26,000.0	23,000.0	22,000.0	22,000.0	11,000.0	34,000.0	27,000.0
Chromium	2.0	1.0 B	ND(10.0)	ND(10.0)	2.1 J	ND(10.0)	2.0 J	3.0 J	2.1 J
Iron	**10,400.0**	**10,600.0**	**10,000.0**	**11,000.0**	**12,000.0**	**12,000.0**	**15,000.0**	**16,000.0**	**13,000.0**
Lead	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Magnesium	20,700.0	**18,600.0**	16,000.0	14,000.0	12,000.0	11,000.0	5,300.0	14,000.0	13,000.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	55,900.0	50,300.0	54,000.0	46,000.0	44,000.0	45,000.0	12,000.0	44,000.0	40,000.0
Sodium	**87,100.0**	**92,500.0**	**92,000.0**	**83,000.0**	**74,000.0**	**78,000.0**	**14,000.0**	**110,000.0**	**66,000.0**
Leachate Indicators (mg/l)									
Ammonia	**79.00**	**48.000**	**41.70**	**38.3**	**35.0**	**39.0**	**8.8**	**34.0**	**32.6**
Bicarbonate	538.00	507.00	420.00	420.0	400.0	410.0	103.0	374.0	342.0
Chloride	71.00	73.00	62.00	54.0	46.0	48.0	12.0	150.0	61.0
Nitrate	0.25	0.65	1.10	0.3	0.052 J	0.070 J	ND(0.10)	0.087 J	0.2
Sulfate	5.00	1.8 B	1.10 J	1.5 J	2.0 J	ND(10.0)	23.0	6.2 J	6.3 J
Alkalinity	538.00	507.00	420.00	420.0	400.0	410.0	103.0	374.0	342.0
TDS	500.00	480.00	430.00	440.0	390.0	370.0	130.0	520.0	380.0
Hardness	153.00	145.00	130.00	110.0	100.0	100.0	49.0	140.0	120.0

CW1-S (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	ND(100.0)	ND(100.0)	50.0 J	50.0 J	101.0	142.0	41.0 J	ND(100.0)	110.0
Arsenic	**45.0**	**51.7**	**170.0**	**56.0**	**96.0**	**61.0**	**84.0**	**57.0**	**78.0**
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	1.0 J	ND(5.0)	ND(5.0)	ND(5.0)	**ND(5.0)**
Calcium	29,000.0	29,000.0	30,000.0	30,000.0	30,100.0	35,700.0	45,500.0	49,900.0	**44,500.0**
Chromium	3.0 J	ND(10.0)	2.0 J	4.0 J	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	**ND(10.0)**
Iron	**16,000.0**	**15,000.0**	**31,000.0**	**18,000.0**	**22,600.0**	**13,300.0**	**25,200.0**	**23,500.0**	**21,600.0**
Lead	ND(10.0)	ND(10.0)	3.0 J	ND(10.0)	4.0 J	3.0 J	ND(10.0)	ND(10.0)	**3.0 J**
Magnesium	14,000.0	12,000.0	13,000.0	13,000.0	11,100.0	12,900.0	14,600.0	16,300.0	**16,100.0**
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	**ND(0.1)**
Potassium	37,000.0	37,000.0	37,000.0	39,000.0	34,000.0	36,700.0	36,900.0	43,300.0	**38,400.0**
Sodium	**68,000.0**	**81,000.0**	**74,000.0**	**85,000.0**	**73,500.0**	**77,500.0**	**99,900.0**	**110,000.0**	**81,000.0**
Leachate Indicators (mg/l)									
Ammonia	**31.90**	**30.00**	**30.800**	**34.0**	**27.3**	**30.3**	**32.7**	**38.9**	**25.4**
Bicarbonate	368.00	338.00	369.00	351.0	350.0	360.0	420.0	472.0	432.0
Chloride	58.00	63.00	61.00	58.0	57.0	54.0	81.0	80.0	60.0
Nitrate	0.025 J	0.081 J	ND(0.10)	ND(0.10)	0.032J	0.1	ND(0.10)	ND(0.10)	ND(0.10)
Sulfate	5.5 J	19.00	18.00	29.0	22.0	13.0	31.0	45.0	14.0
Alkalinity	368.00	338.00	369.00	351.0	350.0	360.0	420.0	472.0	432.0
TDS	390.00	420.00	390.00	410.0	410.0	380.0	510.0	620.0	440.0
Hardness	130.00	120.00	130.00	130.0	121.0	142.0	174.0	192.0	177.0

CW1-S (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	ND(100.0)	79.0 J							
Arsenic	**50.0**	ND(5.0)							
Cadmium	ND5.0)	ND(5.0)							
Calcium	39,700.0	19,500.0							
Chromium	ND(10.0)	ND(10.0)							
Iron	**20,400.0**	92.0							
Lead	ND(10.0)	ND(10.0)							
Magnesium	14,100.0	12,000.0							
Mercury	ND(0.2)	ND(0.2)							
Potassium	33,400.0	2,430.0 J							
Sodium	**69,200.0**	10,100.0							
Leachate Indicators (mg/l)									
Ammonia	**26.90**	0.059 J							
Bicarbonate	347.00	56.80							
Chloride	53.00	18.00							
Nitrate	ND(0.10)	0.31							
Sulfate	32.00	38.00							
Alkalinity	347.00	56.80							
TDS	410.00	170.00							
Hardness	157.00	98.20							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

Bold indicates value above NYSDEC Class GA Standard

B: The analyte was found in an associated blank, as well as in the sample

CW1-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	**2.0**	**2.0**	**2.0 J**	**1.0 J**	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.6)	ND(0.3)	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	**5.4**	**5.0**	4.0	3.0 J	ND(5.0)	ND(0.6)	2.9	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	0.8 J	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		3.0	ND(2.0)	2.0 J	ND(10.0)	1.6	1.6	ND(0.3)	1.2

CW1-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	0.6	ND(0.6)	**1.8 J**	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	1.8	3.4 J	**5.3**	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	0.6	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

CW1-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.6 J	3.3 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	0.27 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	0.90 J	1.70 J	ND(0.47)	1.90 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	0.20 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	0.46 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

CW1-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	2.10 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	1.60 J	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	0.30 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	7.00 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

CW1-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

CW1-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	1.20 J							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	0.29 J							
Acetone	ND(10.0)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	13.00 J							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

CW1-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	526.0	157.0 B	123.0 B	ND(26.8)	ND(21.3)	ND(200.0)	42.0 B	68.6 B	89.8 B
Arsenic	**49.4**	**58.9**	**44.3**	**34.9**	**52.7**	**64.0**	**58.3**	**52.8**	**54.7**
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	3,580.0 B	4,270.0 B	2,550.0 B	16,500.0 E	19,300.0	20,000.0	22,500.0	19,600.0	17,700.0
Chromium	8.4 B	5.2 B	4.7 B	9.9 B	ND(8.2)	ND(5.0)	1.9 B	8.3 B	1.0 B
Iron	**1,960.0**	**1,930.0**	**1,510.0**	**9,060.0**	**9,690.0**	**11,300.0**	**12,900.0**	**8,710.0**	**13,600.0**
Lead	3.4	2.1 B	3.1	ND(1.1)	1.7 B	ND(4.0)	ND(3.0)	**147.0**	ND(2.0)
Magnesium	20,000.0	22,200.0	14,500.0	26,900.0 E	22,000.0 E	26,200.0	22,300.0	24,200.0	17,300.0
Mercury	ND(0.2)	ND(0.06)	ND(0.04)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	195,000.0	271,000.0	137,000.0	100,000.0	89,400.0 E	88,700.0	77,500.0 E	93,800.0	63,900.0
Sodium	**391,000.0**	**411,000.0 E**	**302,000.0 E**	**177,000.0 E**	**163,000.0 E**	**152,000.0**	**142,000.0**	**160,000.0**	**102,000.0**
Leachate Indicators (mg/l)									
Ammonia	**221.000**	**204.000**	**195.000**	**115.000**	**84.000**	**106.000**	**80.000**	**90.000**	**65.000**
Bicarbonate		1,450.00	1,180.00	814.00	724.00	680.00	597.00	560.00	420.00
Chloride	**363.00**	**255.00**	**337.00**	173.00	115.00	119.00	116.00	91.00	71.00
Nitrate	2.73	0.45	0.29	0.28	ND(0.05)	ND(0.50)	ND(0.05)	ND(0.50)	ND(0.50)
Sulfate	3.18	16.00	38.90	120.00	93.90	99.00	200.00	90.00	76.00
Alkalinity	1,870.00	1,450.00	1,180.00	814.00	724.00	680.00	598.00	560.00	420.00
TDS	2,570.00	1,280.00	1,380.00	736.00	744.00	773.00	792.00	770.00	600.00
Hardness	21.00	101.62	65.80	152.00 E	139.00	95.70	897.00	150.00	120.00

CW1-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	105.0 B	ND(45.7)	ND(7.3)	25.8 B	ND(78.9)	114.0 J	75.9 J	ND(180.0)	43.7 J
Arsenic	**113.0**	**70.4**	**29.3**	**56.7**	**75.1**	6.0 J	41.9	ND(4.84)	**40.6**
Cadmium	0.74 B	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	0.55 J	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	18,900.0	20,000.0	13,200.0	15,800.0	19,700.0	12,300.0	14,400.0	6,740.0	16,300.0
Chromium	**83.9**	ND(5.0)	ND(0.6)	5.8 B	4.4 B	2.2 J	25.1	1.3 J	ND(0.343)
Iron	**23,700.0**	**13,900.0**	**3,770.0**	**7,770.0**	**6,640.0**	191.0	**7,400.0**	81.8	**12,200.0**
Lead	ND(2.5)	ND(3.0)	4.6	7.1	3.8	5.3	7.3	ND(1.79)	ND(2.18)
Magnesium	18,700.0	20,300.0	14,700.0	16,700.0	24,400.0	11,300.0	11,700.0	1,260.0 J	12,500.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.07 J
Potassium	66,600.0	59,700.0	58,000.0	72,800.0	124,773.4	44,800.0	44,800.0	1,050.0 J	39,300.0
Sodium	**120,000.0**	**119,000.0**	**92,400.0**	**156,000.0**	**254,000.0**	**64,300.0**	**54,100.0**	4,640.0 J	**66,400.0**
Leachate Indicators (mg/l)									
Ammonia	**50.000**	**71.000**	**51.000**	**61.000**	0.500	**21.000**	**39.000**	**37.000**	**34.000**
Bicarbonate	340.00	410.00	380.00	570.00	120.00	200.00	280.00	280.00	280.00
Chloride	68.00	89.00	78.00	95.00	170.00	47.00	36.00	32.00	42.00
Nitrate	0.60	ND(0.50)	ND(0.50)	ND(0.50)	2.40	7.40	0.70	0.70	ND(0.50)
Sulfate	54.00	83.00	69.00	54.00	19.00	73.00	110.00	56.00	48.00
Alkalinity	340.00	410.00	390.00	570.00	120.00	200.00	280.00	280.00	280.00
TDS	420.00	670.00	480.00	680.00	274.00	396.00	376.00	353.00	380.00
Hardness	120.00	130.00	94.00	110.00	150.00	77.00	83.00	22.00	92.00

CW1-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	129.0 J	ND(5.31)	48.0 J	ND(200.0)	18.0	ND(10.0)	ND(10.0)	ND(10.0)	44.0
Arsenic	**28.5**	**34.8**	**36.0**	**59.0**	**45.0**	**25.0**	**33.0**	**33.8**	**30.3**
Cadmium	1.71 J	ND(0.327)	ND(0.52)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	16,900.0	14,800.0	16,700.0	17,000.0	14,000.0	11,900.0	14,400.0	16,800.0	16,600.0
Chromium	2.03 J	9.02 J	5.8 J	3.0 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.8 B
Iron	**9,210.0**	**5,290.0**	**13,100.0**	**7,500.0**	**5,530.0**	**14,600.0**	**20,200.0**	170.0	**22,900.0**
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	11,200.0	15,400.0	11,400.0	16,500.0	12,000.0	6,290.0	6,940.0	7,980.0	8,050.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	44,300.0	85,000.0	29,900.0	70,700.0	57,700.0	17,600.0	14,600.0	19,600.0	20,300.0
Sodium	**60.0**	**169,000.0**	**49,600.0**	**118,000.0**	**105,000.0**	**21,200.0**	19,000.0	**31,200.0**	**27,800.0**
Leachate Indicators (mg/l)									
Ammonia	0.470	**53.000**	**26.000**	**79.800**	**77.000**	**15.000**	**12.000**	**17.00**	**21.00**
Bicarbonate	270.00	660.00	ND(2.00)	669.00	610.00	136.00	122.00	173.00	170.00
Chloride	36.00	92.00	29.00	93.70	67.00	20.00	17.00	24.00	21.00
Nitrate	ND(0.5)	ND(0.50)	ND(0.50)	ND(0.10)	ND(0.05)	0.05	0.08	0.15	0.11
Sulfate	44.00	8.79	33.00	7.10	10.00	27.00	33.00	31.00	34.00
Alkalinity	270.00	660.00	210.00	669.00	610.00	136.00	122.00	173.00	170.00
TDS	330.00	630.00	260.00	613.00	170.00	170.00	180.00	220.00	180.00
Hardness	88.20	100.42	88.45	110.00	84.40	55.60	64.50	74.80	74.60

CW1-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Aluminum	42.0	29.0	30.0 J	ND(100.0)	50.0 J	30.0 J	24.0 J	32.0 J	47.0 J
Arsenic	**33.0**	13.0	**40.0**	**33.0**	14.6	**32.0**	**56.6**	**39.9**	**49.9**
Cadmium	ND(1.0)	0.3 B	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	17,100.0	14,500.0	17,000.0	16,000.0	16,000.0	14,000.0	**22,000.0**	13,000.0	12,000.0
Chromium	ND(1.0)	4.0	ND(10.0)	ND(10.0)	3.8 J	3.0 J	**2.1 J**	4.7 J	2.9 J
Iron	**21,800.0**	**7,150.0**	**23,000.0**	**20,000.0**	**5,600.0**	**18,000.0**	**13,000.0**	**18,000.0**	**31,000.0**
Lead	ND(2.0)	ND(0.2)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	**2.9 J**	ND(10.0)	ND(10.0)
Magnesium	8,450.0	7,500.0	8,200.0	7,700.0	7,600.0	6,700.0	**12,000.0**	6,500.0	5,800.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	**ND(0.2)**	ND(0.2)	ND(0.2)
Potassium	24,000.0	14,000.0	16,000.0	12,000.0	12,000.0	16,000.0	**39,000.0**	12,000.0	10,000.0
Sodium	**31,200.0**	16,100.0	**24,000.0**	19,000.0	18,000.0	**21,000.0**	**58,000.0**	14,000.0	12,000.0
Leachate Indicators (mg/l)									
Ammonia	**22.00**	**4.50**	**10.70**	**7.4**	**3.3**	**11.5**	**35.7**	**9.2**	**6.3**
Bicarbonate	200.00	86.00	130.00	120.0	76.0	130.0	367.0	115.0	92.3
Chloride	26.00	15.00	20.00	17.0	16.0	16.0	44.0	15.0	14.0
Nitrate	0.12	4.20	0.10	0.2	3.8	0.1	0.1	ND(0.10)	0.190 J
Sulfate	35.00	23.00	24.00	26.0	27.0	28.0	ND(10.0)	26.0	23.0
Alkalinity	200.00	86.00	130.00	120.0	76.0	130.0	367.0	115.0	92.3
TDS	230.00	160.00	180.00	160.0	170.0	170.0	350.0	160.0	90.0
Hardness	77.50	67.10	75.00	72.0	70.0	62.0	100.0	59.0	54.0

CW1-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	ND(100.0)	72.0 J	ND(100.00)	130.0	438.0	78.0 J	36.0 J	4,630.0	45.0 J
Arsenic	**41.0**	**48.7**	**30.0**	**49.0**	ND(5.0)	ND(5.0)	ND(5.0)	4.0 J	ND(5.0)
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	13,000.0	14,000.0	16,000.0	16,000.0	16,100.0	17,600.0	16,800.0	20,000.0	19,100.0
Chromium	2.0 J	ND(10.0)	ND(10.00)	2.0 J	ND(10.0)	ND(10.0)	ND(10.0)	6.0 J	ND(10.0)
Iron	**23,000.0**	**21,000.0**	**22,000.0**	**23,000.0**	**808.0**	136.0	102.0	7,320.0	152.0
Lead	ND(10.0)	ND(10.0)	3.0 J	3.0 J	5.0 J	ND(10.0)	ND(10.0)	33.0	ND(10.0)
Magnesium	6,700.0	5,900.0	7,900.0	7,700.0	5,770.0	5,880.0	5,860.0	13,700.0	12,600.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	11,000.0	8,600.0	11,000.0	13,000.0	4,040.0	4,110.0	4,080.0	2,660.0	2,540.0
Sodium	13,000.0	12,000.0	16,000.0	16,000.0	10,600.0	11,600.0	11,200.0	10,400.0	10,000.0
Leachate Indicators (mg/l)									
Ammonia	**6.73**	**5.18**	**7.570**	**8.14**	ND(0.075)	0.040 J	ND (0.075)	0.20	0.035 J
Bicarbonate	95.80	91.30	124.00	117.0	47.4	47.6	51.4	57.2	55.1
Chloride	14.00	14.00	17.00	14.0	13.0	12.0	14.0	18.0	17.0
Nitrate	0.12	ND(0.10)	ND(0.10)	ND(0.10)	0.7	1.0	1.0	0.039 J	0.2
Sulfate	25.00	23.00	28.00	28.0	25.0	25.0	26.0	43.0	39.0
Alkalinity	95.80	91.30	124.00	117.0	47.4	47.6	51.4	57.2	55.1
TDS	140.00	170.00	160.00	160.0	140.0	150.0	120.0	220.0	140.0
Hardness	61.00	60.00	72.00	71.0	64.0	68.2	65.9	106.0	99.6

CW1-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	ND(100.0)	63.0 J							
Arsenic	ND(5.0)	**44.0**							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	19,900.0	36,800.0							
Chromium	ND(10.0)	ND(10.0)							
Iron	61.0	**18,400.0**							
Lead	3.0 J	ND(10.0)							
Magnesium	12,200.0	13,600.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	2,690.0	31,600.0							
Sodium	10,600.0	**69,700.0**							
Leachate Indicators (mg/l)									
Ammonia	0.096	**22.30**							
Bicarbonate	57.40	335.00							
Chloride	16.00	56.00							
Nitrate	0.28	ND(0.10)							
Sulfate	37.00	39.00							
Alkalinity	57.40	335.00							
TDS	160.00	400.00							
Hardness	100.00	148.00							

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

CW2-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	2.0 J	2.0 J	4.6	ND(1.0)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	2.2
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.6)	2.9
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)

CW2-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04
Chloromethane	ND(1.1)	NA	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)
Bromomethane	ND(0.6)	NA	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)
Vinyl Chloride	ND(1.0)	NA	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)
Chloroethane	ND(0.7)	NA	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)
Methylene Chloride	ND(0.4)	NA	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)
Trichloroflouromethane	ND(0.4)	NA	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)
1,1-Dichloroethene	ND(0.4)	NA	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	NA	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)
*1,2-Dichloroethene, Total	ND(0.4)	NA	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)
Chloroform	ND(0.3)	NA	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)
1,2-Dichloroethane	ND(0.3)	NA	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)
1,1,1-Trichloroethane	ND(0.3)	NA	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)
Carbon Tetrachloride	ND(0.3)	NA	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)
Bromodichloromethane	ND(0.3)	NA	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)
1,2-Dichloropropane	ND(0.4)	NA	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)
cis-1,3-Dichloropropene	ND(0.3)	NA	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)
Trichloroethene	1.2	NA	ND(0.4)	1.0 J	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)
Benzene	ND(0.3)	NA	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)
Dibromochloromethane	ND(0.3)	NA	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)
trans-1,3-Dichloropropene	ND(0.2)	NA	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)
1,1,2-Trichloroethane	ND(0.3)	NA	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)
2-Chloroethylvinyl ether	ND(1.1)	NA	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)
Bromoform	ND(0.3)	NA	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)
1,1,2,2-Tetrachloroethane	ND(0.3)	NA	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)
Tetrachloroethene	2.8	NA	1.2	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)
Toluene	ND(0.3)	NA	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)
Chlorobenzene	ND(0.2)	NA	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)
Ethylbenzene	ND(0.4)	NA	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)
1,2-Dichlorobenzene	ND(0.2)	NA	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)
1,3-Dichlorobenzene	ND(0.4)	NA	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)
1,4-Dichlorobenzene	ND(0.3)	NA	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)

CW2-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.9 J	3.3 J
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	0.8 J	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

CW2-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	7.00 J	ND(10.0)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

CW2-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA

CW2-M (continued)

Parameter	6/20	10/20						
Chloromethane	ND(5.00)	ND(5.00)						
Bromomethane	ND(5.00)	ND(5.00)						
Vinyl Chloride	ND1.00	ND(1.00)						
Chloroethane	ND(2.00)	ND(2.00)						
Methylene Chloride	ND(1.00)	ND(1.00)						
Trichloroflouromethane	ND(5.00)	ND(5.00)						
1,1-Dichloroethene	ND(1.00)	ND(1.00)						
1,1-Dichloroethane	ND(1.50)	ND(1.50)						
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)						
Chloroform	ND(1.00)	ND(1.00)						
1,2-Dichloroethane	ND(1.50)	ND(1.50)						
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)						
Carbon Tetrachloride	ND(1.00)	ND(1.00)						
Bromodichloromethane	ND(1.00)	ND(1.00)						
1,2-Dichloropropane	ND(3.50)	ND(3.50)						
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)						
Trichloroethene	ND(1.00)	ND(1.00)						
Benzene	ND(1.00)	ND(1.00)						
Dibromochloromethane	ND(1.00)	ND(1.00)						
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)						
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)						
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)						
Bromoform	ND(1.00)	ND(1.00)						
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)						
Tetrachloroethene	ND(1.50)	ND(1.50)						
Toluene	ND(1.00)	ND(1.00)						
Chlorobenzene	ND(3.50)	ND(3.50)						
Ethylbenzene	ND(1.00)	ND(1.00)						
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)						
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)						
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)						
Acetone	ND(10.00)	ND(10.00)						
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)						
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)						
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)						

ND( ): Compound not detected at method detection limit

*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

NA: Not Accessible

B: The analyte was found in an associated blank, as well as in the sample

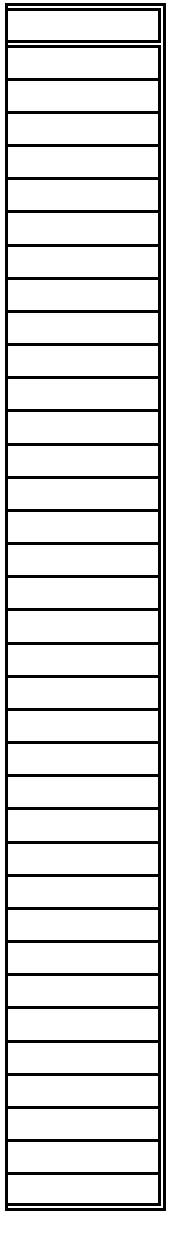
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CW2-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	60.0 B	156.0 B	ND(34.8)	ND(26.8)	ND(21.3)	ND(200.0)	36.5 B	ND(25.8)	93.8 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	ND(2.0)	24.2	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	4.7 B	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	48,500.0	56,400.0	46,100.0	24,400.0 E	25,900.0	22,800.0	25,700.0	28,800.0	21,300.0
Chromium	ND(1.0)	ND(1.8)	ND(1.0)	ND(8.3)	10.3	ND(5.0)	2.3 B	4.7 B	ND(0.7)
Iron	**416.0**	263.0	**346.0**	109.0 B	**484.0**	**390.0**	184.0	60.9 B	112.0
Lead	ND(3.0)	ND(1.6)	ND(1.6)	3.5	2.4 B	ND(4.0)	ND(3.0)	ND(0.6)	ND(2.0)
Magnesium	7,500.0	6,960.0	7,510.0	4,800.0 BE	5,860.0 E	6,010.0	6,940.0	7,940.0	6,260.0
Mercury	ND(0.2)	ND(0.06)	0.05 B	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	16,800.0	13,500.0	11,500.0	6,050.0	7,060.0 E	5,640.0	5,880.0 E	7,160.0	5,950.0
Sodium	**34,900.0**	**31,700.0 E**	**31,800.0 E**	**23,500.0 E**	**24,400.0 E**	**22,500.0**	**29,500.0**	**27,600.0**	**24,800.0**
Leachate Indicators (mg/l)									
Ammonia	**2.520**	ND(0.050)	1.190	1.100	**4.900**	0.740	**7.400**	0.200	ND(0.200)
Bicarbonate		111.00	67.20	63.80	70.30	61.00	73.00	68.00	110.00
Chloride	51.40	31.20	44.10	37.20	26.90	33.60	40.80	46.00	46.00
Nitrate	ND(1.00)	1.31	ND(0.04)	0.46	ND(0.05)	ND(0.50)	0.295	0.86	0.90
Sulfate	76.40	55.50	40.20	40.00	39.80	36.50	48.80	39.00	39.00
Alkalinity	110.00	111.00	67.20	63.80	70.30	61.00	74.00	68.00	110.00
TDS	334.00	352.00	279.00	224.00	178.00	158.00	158.00	180.00	190.00
Hardness	55.00	169.62	145.00	80.70 E	88.70	80.80	110.00	100.00	79.00

CW2-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	86.8 B	NA	ND(7.3)	35.8 B	ND(78.9)	25.1 J	53.4 J	ND(180.0)	35.8 J
Arsenic	ND(2.5)	NA	ND(2.8)	ND(3.6)	ND(11.9)	ND(4.0)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	ND(0.4)	NA	ND(0.4)	ND(1.0)	ND(1.0)	ND(.80)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	27,000.0	NA	18,200.0	19,400.0	25,000.0	35,200.0	26,400.0	29,600.0	21,700.0
Chromium	ND(0.8)	NA	ND(0.6)	8.4 B	ND(1.0)	ND(1.4)	16.4	ND(1.22)	ND(0.343)
Iron	93.8 B	NA	25.0 B	112.0	227.0	85.4 J	92.2 J	168.0	234.0
Lead	2.9 B	NA	4.4	5.2	4.0	4.0	6.6	ND(1.79)	ND(2.18)
Magnesium	8,240.0	NA	5,650.0	6,010.0	8,330.0	11,900.0	9,240.0	10,600.0	7,890.0
Mercury	ND(0.2)	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.14 J	0.04 J
Potassium	6,960.0	NA	5,480.0	7,580.0	7,670.0	9,380.0	8,760.0	13,100.0	8,810.0
Sodium	**31,300.0**	NA	**20,900.0**	**22,300.0**	**23,500.0**	**31,800.0**	**22,800.0**	**22,300.0**	**21,100.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	NA	ND(0.200)	ND(0.200)	ND(0.200)	0.300	ND(0.200)	0.487	0.367
Bicarbonate	59.00	NA	52.00	46.00	55.00	90.00	71.00	83.00	64.00
Chloride	43.00	NA	40.00	26.00	37.00	49.00	32.00	31.00	25.00
Nitrate	1.60	NA	ND(0.50)	1.40	0.90	6.60	7.70	ND(0.50)	ND(0.50)
Sulfate	31.00	NA	48.00	35.00	69.00	100.00	62.00	85.00	64.00
Alkalinity	59.00	NA	52.00	46.00	55.00	90.00	71.00	83.00	64.00
TDS	190.00	NA	160.00	140.00	222.00	321.00	221.00	251.00	190.00
Hardness	100.00	NA	69.00	73.00	97.00	136.00	104.00	118.00	87.00

CW2-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	97.0 J	ND(5.31)	ND(7.6)	ND(200.0)	30.0	17.0	ND(10.0)	ND(10.0)	17.4
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	ND(10.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	0.91 J	ND(0.327)	0.64 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.3 B
Calcium	24,500.0	24,600.0	25,200.0	18,100.0	17,400.0	16,500.0	18,000.0	13,700.0	13,100.0
Chromium	ND(0.343)	ND(0.343)	20.4	ND(10.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.3 B
Iron	150.0	ND(27.0)	72.2 J	72.0 J	74.0	46.0	20.0	64.0	83.1
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	1.2 B
Magnesium	8,680.0	9,520.0	10,600.0	7,000.0	6,440.0	6,000.0	6,100.0	4,900.0	4,660.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND0.2)	0.1 B	ND(0.2)	ND(0.2)
Potassium	10,900.0	8,080.0	8,590.0	6,700.0	7,680.0	7,700.0	7,600.0	6,300.0	4,980.0
Sodium	**21,100.0**	19,400.0	**22,700.0**	**20,300.0**	**23,400.0**	**22,300.0**	**23,100.0**	**23,700.0**	**17,200.0**
Leachate Indicators (mg/l)									
Ammonia	**34.000**	ND(0.200)	0.330	0.090	0.410	0.080	0.070	0.07	0.08
Bicarbonate	58.00	71.00	ND(2.00)	50.40	38.00	38.20	38.10	33.20	31.60
Chloride	27.00	31.00	27.00	30.60	48.00	43.00	38.00	36.00	28.00
Nitrate	ND(0.50)	1.67	1.22	1.00	1.90	2.40	2.60	2.20	1.80
Sulfate	65.00	64.00	32.00	37.10	26.00	28.00	30.00	29.00	25.00
Alkalinity	58.00	71.00	63.00	50.40	38.00	38.20	38.10	33.20	31.60
TDS	190.00	250.00	170.00	175.00	46.00	170.00	180.00	150.00	140.00
Hardness	96.90	100.53	106.71	74.00	70.00	65.90	70.10	54.30	51.90

CW2-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	9.3 B	138.0	30.0 J	30.0 J	35.0 J	170.0	720.0	230.0	110.0
Arsenic	ND(4.0)	ND(3.0)	ND(5.0)	ND(5.0)	3.7 J	ND(5.0)	4.4 J	3.0 J	ND(5.0)
Cadmium	0.6 B	0.3 B	ND(5.0)	ND(5.0)	0.6 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	11,700.0	12,100.0	9,300.0	12,000.0	20,000.0	12,000.0	16,000.0	12,000.0	14,000.0
Chromium	ND(1.0)	3.0	ND(10.0)	ND(10.0)	4.9 J	2.0 J	5.5 J	2.6 J	ND(10.0)
Iron	212.0	250.0	90.0	50.0	160.0	140.0	780.0	**350.0**	240.0
Lead	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	6.6 J	3.0 J	2.6 J
Magnesium	3,980.0	3,870.0	3,300.0	4,300.0	7,400.0	4,600.0	4,800.0	3,300.0	**46,000.0**
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	3,700.0	4,700.0	4,400.0	5,100.0	8,200.0	6,200.0	6,200.0	5,200.0	5,000.0
Sodium	15,000.0	16,700.0	17,000.0	**22,000.0**	**39,000.0**	**21,000.0**	40,000.0	15,000.0	**27,000.0**
Leachate Indicators (mg/l)									
Ammonia	0.11	ND(0.02)	0.20	0.068 J	0.07 J	0.061 J	0.1	0.1	ND(0.075)
Bicarbonate	28.00	31.00	23.00	32.0	32.0	39.0	40.7	34.0	34.1
Chloride	20.00	27.00	23.00	18.0	70.0	28.0	52.0	18.0	48.0
Nitrate	1.90	1.50	1.10	1.0	2.9	1.0	0.6	2.6	0.5
Sulfate	17.00	**11.00**	10.00	36.0	36.0	37.0	52.0	14.0	41.0
Alkalinity	28.00	31.00	23.00	32.0	32.0	39.0	40.7	34.0	34.1
TDS	110.00	110.00	95.00	120.0	210.0	140.0	220.0	120.0	200.0
Hardness	45.60	46.20	37.00	47.0	80.0	50.0	61.0	44.0	54.0

CW2-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	68.0 J	120.0	70.0 J	180.0	131.0	1,230.0	50.0 J	413.0	74.0 J
Arsenic	4.7 J	ND(5.0)	ND(5.00)	2.0 J	ND(5.0)	3.0 J	ND(5.0)	ND(5.0)	ND(5.0)
Cadmium	ND(5.0)	1.0 J	ND(5.00)	ND(5.0)	2.0 J	**49.0**	1.0 J	4.0 J	6.0
Calcium	17,000.0	14,000.0	11,000.0	11,000.0	21,200.0	35,300.0	24,600.0	25,500.0	24,300.0
Chromium	ND(10.0)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.0)	6.0 J	ND(10.0)	4.0 J	3.0 J
Iron	110.0	280.0	110.0	**300.0**	**361.0**	**1,870.0**	**79.0**	**700.0**	145.0
Lead	ND(10.0)	3.0 J	3.0 J	ND(10.0)	3.0 J	22.0	ND(10.0)	1.0 J	ND(10.0)
Magnesium	6,300.0	3,100.0	2,700.0	2,700.0	6,980.0	3,300.0	8,520.0	8,840.0	7,680.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	6,400.0	4,400.0	3,700.0	14,000.0	9,950.0	22,400.0	7,480.0	7,550.0	8,570.0
Sodium	**20,000.0**	**25,000.0**	13,000.0	**56,000.0**	**27,400.0**	**115,000.0**	**34,800.0**	**30,900.0**	**30,800.0**
Leachate Indicators (mg/l)									
Ammonia	0.027 J	0.15	0.039 J	0.075	0.039J	0.089	0.038 J	0.127	**0.081**
Bicarbonate	29.60	38.40	29.60	52.7	51.7	143.0	55.7	54.0	64.5
Chloride	28.00	37.00	20.00	68.0	45.0	150.0	51.0	42.0	39.0
Nitrate	1.02	1.70	1.94	2.2	7.7	2.5	6.9	6.2	4.3
Sulfate	37.00	12.00	6.90 J	9.00 J	39.0	21.0	44.0	43.0	41.0
Alkalinity	29.60	38.40	29.60	52.7	51.7	143.0	55.7	54.0	64.5
TDS	120.00	150.00	98.00	220.0	250.0	450.0	230.0	300.0	200.0
Hardness	69.00	47.00	38.00	40.0	81.7	102.0	96.6	100.0	92.2

CW2-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	114.0	127.0							
Arsenic	ND(5.0)	ND(5.0)							
Cadmium	1.0 J	1.0 J							
Calcium	19,600.0	19,900.0							
Chromium	ND(10.0)	ND(10.0)							
Iron	284.0	197.0							
Lead	4.0 J	ND(10.0)							
Magnesium	5,570.0	5,050.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	7,000.0	8,260.0							
Sodium	**22,800.0**	**21,500.0**							
Leachate Indicators (mg/l)									
Ammonia	0.084	ND(0.075)							
Bicarbonate	44.60	48.70							
Chloride	32.00	34.00							
Nitrate	2.19	2.200							
Sulfate	32.00	28.00							
Alkalinity	44.60	48.70							
TDS	160.00	160.00							
Hardness	71.80	70.50							

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

NA: Not Accessible

CW4-S
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	**17.0**	**23.0**	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	1.2	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	3.0	ND(5.0)	4.0 J	**5.2**	ND(0.3)	ND(0.4)	1.7
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	**5.5**	ND(3.0)	4.0	ND(5.0)	5.0 J	4.6	**5.5**	ND(0.3)	2.3
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

CW4-S (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

CW4-S (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.6 J	2.8 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

CW4-S (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	1.30 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	1.80 J	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	7.10 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	11.00 J	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

CW4-S (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

CW4-S (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.50)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

CW4-S
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	90.6 B	347.0	273.0	270.0	62.0 B	ND(200.0)	80.7 B	41.9 B	314.0
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	2.7 B	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	32,300.0	25,200.0	30,700.0	7,400.0 E	35,300.0	37,700.0	45,800.0	28,400.0	30,200.0
Chromium	1.8 B	8.7 B	1.4 B	ND(8.3)	13.7	9.0	5.1 B	5.5 B	7.7 B
Iron	**8,160.0**	**7,720.0**	**7,650.0**	**2,700.0**	**9,220.0**	**10,100.0**	**9,590.0**	**5,530.0**	**5,710.0**
Lead	3.4	4.1	6.4	6.7	5.8	ND(4.0)	ND(3.0)	1.6 B	3.8
Magnesium	9,790.0	7,760.0	9,100.0	419.0 BE	10,600.0 E	12,900.0	15,900.0	8,870.0	10,800.0
Mercury	ND(0.2)	ND(0.06)	0.06 B	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	12,800.0	13,200.0	9,760.0	1,650.0 B	12,700.0 E	15,100.0	19,500.0 E	12,800.0	19,700.0
Sodium	**34,800.0**	**28,000.0 E**	**31,500.0 E**	2,310.0 BE	**40,200.0 E**	**46,500.0**	**51,100.0**	**27,400.0**	**42,300.0**
Leachate Indicators (mg/l)									
Ammonia	**4.700**	1.650	1.810	ND(0.200)	**6.200**	**5.990**	1.140	ND(0.200)	**4.500**
Bicarbonate		82.70	110.00	15.40	126.00	150.00	191.00	40.00	280.00
Chloride	39.00	31.90	90.40	4.30	55.90	69.80	85.10	20.00	50.00
Nitrate	4.89	0.25	0.30	0.53	0.23	ND(0.50)	ND(0.05)	6.90	ND(0.50)
Sulfate	37.30	20.50	29.80	ND(5.00)	38.70	47.60	76.10	29.00	36.00
Alkalinity	63.00	82.70	110.00	15.40	126.00	150.00	192.00	40.00	280.00
TDS	218.00	173.00	206.00	46.00	324.00	305.00	376.00	130.00	280.00
Hardness	41.00	94.80	114.00	20.20 E	132.00	146.00	286.00	98.00	120.00

CW4-S (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	142.0 B	202.0	75.1 B	65.4 B	319.0	106.0 J	64.4 J	ND(180.0)	154.0
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	2.9 B	3.3 B	3.3 B	ND(1.0)	1.2 B	0.93 J	1.3 J	1.58 J	2.7 J
Calcium	4,420.0 B	12,600.0	10,600.0	7,210.0	10,000.0	5,530.0	5,650.0	5,760.0	5,540.0
Chromium	2.6 B	ND(5.0)	ND(0.6)	6.5 B	7.6 B	2.7 J	4.2 J	ND(1.22)	11.1
Iron	**1,070.0**	**2,210.0**	**2,340.0**	**398.0**	**2,540.0**	237.0	**310.0**	197.0	**1,570.0**
Lead	4.8	14.9	9.1	10.6	**35.1**	8.3	6.0	ND(1.79)	17.2
Magnesium	222.0 B	2,400.0 B	1,520.0 B	520.0 B	2,230.0 B	293.0 J	288.0 J	619.0 J	229.0 J
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.08 J	0.04 J
Potassium	1,120.0 B	5,080.0	4,170.0 B	3,060.0 B	5,770.0	2,280.0 J	2,040.0 J	2,340.0 J	2,710.0 J
Sodium	1,430.0 B	8,520.0	4,570.0 B	4,210.0 B	5,980.0	1,750.0 J	1,380.0 J	1,190.0 J	1,740.0 J
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	0.600	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate	11.00	49.00	38.00	20.00	79.00	16.00	11.00	12.00	17.00
Chloride	2.30	11.00	8.50	4.70	8.40	2.40	2.50	2.80	3.30
Nitrate	ND(0.50)	ND(0.50)	ND(0.50)	0.90	0.50	0.70	0.90	0.50	0.717
Sulfate	ND(1.00)	10.00	8.60	4.06	7.70	1.90	14.00	ND(1.00)	ND(1.00)
Alkalinity	11.00	49.00	38.00	20.00	78.00	16.00	11.00	12.00	17.00
TDS	20.00	70.00	68.00	37.00	87.00	33.00	38.00	11.00	23.00
Hardness	12.00	41.00	33.00	20.00	34.00	15.00	15.00	17.00	15.00

CW4-S (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	488.0	ND(5.31)	652.0	300.0	125.0	ND(10.0)	7.2 B	ND(10.0)	175.0
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	5.4 J	ND(4.0)	7.0	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	3.69 J	ND(0.327)	**7.5**	2.3 J	**7.0**	1.0	0.6 B	0.7 B	**6.9**
Calcium	12,500.0	5,130.0	17,400.0	11,500.0	7,930.0	8,270.0	7,400.0	8,480.0	18,500.0
Chromium	15.7	1.31 J	20.4	11.0	3.0	2.0	ND(1.0)	0.9 B	3.3
Iron	**2,850.0**	**582.0**	**3,490.0**	**1,700.0**	**862.0**	11.0	12.0	6.0	**825.0**
Lead	**42.3**	ND(2.18)	**205.0**	**55.0**	7.0	ND(1.0)	2.0	ND(2.0)	5.0
Magnesium	3,780.0 J	557.0 J	6,340.0	3,100.0 J	1,210.0	1,040.0	1,100.0	1,780.0	6,780.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	7,250.0	1,790.0 J	5,980.0	4,000.0 J	4,960.0	5,400.0	4,200.0	4,940.0	7,370.0
Sodium	7,620.0	ND(332.0)	11,400.0	6,100.0	4,740.0	4,500.0	2,700.0	4,050.0	11,900.0
Leachate Indicators (mg/l)									
Ammonia	0.230	ND(0.200)	ND(0.200)	0.047	0.070	0.020	0.020	0.12	0.09
Bicarbonate	50.00	21.00	ND(2.00)	40.20	40.00	27.10	24.30	31.00	55.20
Chloride	14.00	4.02	11.00	9.00	4.00	7.30	3.50	8.10	21.00
Nitrate	ND(0.50)	ND(0.50)	0.61	0.78	1.10	1.10	0.94	1.30	2.60
Sulfate	14.00	3.28	11.00	7.40	3.70	3.50	ND(3.00)	5.60	15.00
Alkalinity	50.00	21.00	44.00	40.20	40.00	27.10	24.30	31.00	55.20
TDS	120.00	33.00	81.00	71.00	170.00	40.00	50.00	39.00	150.00
Hardness	46.70	15.10	69.58	41.50	24.80	24.90	23.00	28.50	74.10

CW4-S (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	100.0	69.0	50.0 J	540.0	130.0	140.0	150.0	630.0	200.0
Arsenic	ND(4.0)	ND(3.0)	ND(5.0)	ND(5.0)	3.0 J	ND(5.0)	2.2 J	2.6 J	ND(5.0)
Cadmium	4.0	4.0	3.0 J	**8.0**	**5.0**	3.0 J	1.7 J	3.1 J	2.0 J
Calcium	13,200.0	8,870.0	8,700.0	12,000.0	8,600.0	8,000.0	6,800.0	9,000.0	8,900.0
Chromium	2.0	ND(1.0)	5.0 J	4.0 J	3.6 J	5.0 J	4.7 J	5.8 J	2.6 J
Iron	**397.0**	**530.0**	**540.0**	**1,700.0**	**650.0**	**680.0**	600.0	**1,200.0**	**970.0**
Lead	4.0	ND(2.0)	3.0 J	**32.0**	10.2	15.6	12.6	11.1	**37.8**
Magnesium	4,200.0	840.0	800.0	4,600.0	1,400.0	2,000.0	1,800.0	2,500.0	2,700.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	4,800.0	3,800.0	3,800.0	5,300.0	4,100.0	3,600.0	3,100.0	3,700.0	3,600.0
Sodium	8,100.0	2,800.0	3,000.0	10,000.0	6,300.0	6,100.0	5,200.0	6,200.0	7,300.0
Leachate Indicators (mg/l)									
Ammonia	0.05	ND(0.02)	0.09	0.051 J	0.1	0.1	0.027 J	0.1	0.028 J
Bicarbonate	37.00	26.00	22.00	42.0	23.0	26.0	20.3	25.3	36.7
Chloride	13.00	3.40	4.30	14.0	10.0	9.5	7.9	7.9	14.0
Nitrate	1.40	0.98	1.30	1.3	1.2	1.7	1.2	1.9	2.3
Sulfate	9.60	1.4 B	1.20 J	7.6 J	2.6 J	ND(10.0)	ND(10.0)	4.5 J	9.1 J
Alkalinity	37.00	26.00	22.00	42.0	23.0	26.0	20.3	25.3	36.7
TDS	83.00	38.00	41.00	100.0	45.0	63.0	51.0	64.0	64.0
Hardness	50.30	25.60	25.00	50.0	27.0	28.0	24.0	33.0	33.0

CW4-S (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	77.0 J	20.0 J	70.0 J	130.0	142.0	38.0 J	5,340.0	145.0	113.0
Arsenic	3.1 J	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	4.0 J	3.0 J	ND(5.0)
Cadmium	0.7 J	ND(5.0)	ND(5.00)	3.0 J	**11.0**	1.0 J	10.0	3.0 J	1.0 J
Calcium	9,800.0	7,200.0	11,000.0	8,100.0	8,070.0	5,160.0	19,500.0	9,140.0	9,280.0
Chromium	ND(10.0)	ND(10.0)	ND(10.00)	4.0 J	ND(10.0)	ND(10.0)	20.0	3.0 J	3.0 J
Iron	**300.0**	130.0	110.0	**660.0**	**1,530.0**	**417.0**	**7,770.0**	**573.0**	**514.0**
Lead	10.8	3.0 J	3.0 J	7.0 J	7.0 J	4.0 J	168.0	ND(10.0)	10.0
Magnesium	3,200.0	900.0	2,700.0	2,200.0	757.0	521.0	6,700.0	2,880.0	2,830.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	3,800.0	3,100.0	3,700.0	3,000.0	4,700.0	2,670.0	4,880.0	2,500.0	3,200.0
Sodium	8,300.0	3,500.0	13,000.0	5,900.0	2,370.0	1,890.0 J	13,600.0	7,290.0	7,660.0
Leachate Indicators (mg/l)									
Ammonia	0.038 J	0.08	0.066 J	0.056 J	ND(0.075)	ND (0.075)	0.081	0.044 J	0.081
Bicarbonate	25.90	20.20	22.90	20.5	22.1	15.8	38.2	21.2	20.8
Chloride	10.00	5.90	6.60	6.2	3.4	3.2	25.0	11.0	11.0
Nitrate	2.03	1.08	2.09	1.3	0.8	0.8	5.1	2.1	2.2
Sulfate	7.8 J	ND(10.00)	3.90 J	4.10 J	1.9J	2.0 J	14.0	7.30 J	7.80 J
Alkalinity	25.90	20.20	22.90	20.5	22.1	15.8	38.2	21.2	20.8
TDS	40.00	54.00	48.00	65.0	49.0	24.0	130.0	74.0	53.0
Hardness	38.00	22.00	29.00	29.0	23.3	15.0	76.2	34.7	34.8

CW4-S (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	188.0	ND(100.0)							
Arsenic	ND(5.0)	ND(5.0)							
Cadmium	4.0 J	2.0 J							
Calcium	9,330.0	9,850.0							
Chromium	3.0 J	ND(10.0)							
Iron	**982.0**	131.0							
Lead	22.0	ND(10.0)							
Magnesium	3,060.0	2,040.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	2,920.0	6,520.0							
Sodium	7,680.0	6,410.0							
Leachate Indicators (mg/l)									
Ammonia	ND(0.075)	ND(0.075)							
Bicarbonate	22.60	29.30							
Chloride	12.00	11.00							
Nitrate	2.24	2.100							
Sulfate	5.8 J	5.5 J							
Alkalinity	22.60	29.30							
TDS	54.00	64.00							
Hardness	35.90	33.00							

B: The analyte was found in an associated blank, as well as in the sample

CW4-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.9 J	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	1.0	ND(5.0)	1.0 J	1.0	ND(0.5)	ND(0.3)	1.4
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	2.2	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.6)	2.1	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

CW4-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	1.2 J	ND(1.3)	ND(0.29)	ND(0.29)	1.0 J
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	0.4 J
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	1.4 J	1.1 J	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	0.4 J
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

CW4-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.5 J	3.0 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	1.1 J	1.10 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	0.6 J	ND(0.18)	ND(0.18)	0.41J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	0.8J	ND(0.17)	ND(0.17)	1.20 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	0.36 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

CW4-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	0.31 J	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	0.54 J
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	0.24 J	ND(1.50)	ND(1.50)	ND(1.50)	0.49 J	0.48 J	0.49 J	0.51 J
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	6.60 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

CW4-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	0.59 J	0.54 J	0.69 J	0.68 J	0.78	0.87 J	1.10 J	0.84 J	0.99 J
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	0.28 J	0.26 J
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	0.57 J	0.00	0.00	0.00	ND(10.0)

CW4-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	0.95 J	1.1							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.26 J	ND(1.00)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.0)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	0.95 J	0.92 J							

*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

CW4-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	65.2 B	157.0 B	ND(34.8)	29.8 B	ND(21.3)	ND(200.0)	27.6 B	ND(25.8)	80.7 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	2.6 B	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(0.3)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	34,700.0	40,000.0	24,500.0	23,200.0 E	24,500.0	21,600.0	25,100.0	24,200.0	21,100.0
Chromium	1.3 B	4.0 B	2.2 B	ND(8.3)	36.4	ND(5.0)	1.7 B	11.3	3.6 B
Iron	ND(27.0)	ND(34.0)	38.5 B	151.0	41.0 B	ND(50.0)	ND(21.0)	175.0	ND(15.9)
Lead	ND(3.0)	ND(1.6)	ND(1.6)	3.6	3.0	ND(4.0)	ND(3.0)	ND(0.6)	2.1 B
Magnesium	12,600.0	10,800.0	9,180.0	8,390.0 E	9,420.0 E	8,660.0	10,000.0	9,220.0	7,950.0
Mercury	ND(0.2)	ND(0.06)	ND(0.04)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	1,810.0 B	2,940.0 B	1,310.0 B	1,570.0 B	1,950.0 BE	1,460.0	1,320.0 BE	1,170.0 B	1,350.0 B
Sodium	15,300.0	15,900.0 E	12,000.0 E	10,700.0 E	12,400.0 E	10,600.0	12,700.0	8,610.0	10,900.0
Leachate Indicators (mg/l)									
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	0.270	ND(0.200)	1.420	4.300	ND(0.200)
Bicarbonate		51.90	42.30	33.00	32.00	31.50	30.00	110.00	69.00
Chloride	53.20	32.10	18.20	17.30	22.20	19.10	19.50	39.00	21.00
Nitrate	ND(1.00)	7.15	6.30	6.30	6.80	7.41	3.26	ND(0.50)	7.20
Sulfate	27.30	35.90	29.80	39.50	35.70	36.00	12.60	35.00	37.00
Alkalinity	124.00	51.90	42.30	33.00	32.00	31.50	31.00	110.00	69.00
TDS	319.00	154.00	121.00	152.00	232.00	150.00	130.00	200.00	130.00
Hardness	47.00	144.56	98.80	92.30 E	99.90	88.80	46.00	110.00	85.00

CW4-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	110.0 B	ND(45.7)	ND(7.3)	ND(10.1)	ND(78.9)	99.9 J	39.2 J	ND(180.0)	39.4 J
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	0.88 B	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	27,500.0	21,400.0	21,500.0	19,300.0	22,900.0	22,500.0	21,200.0	21,600.0	23,100.0
Chromium	2.9 B	ND(5.0)	2.1 B	7.1 B	1.8 B	3.8 J	**114.0**	ND(1.22)	2.42 J
Iron	275.0	18.3 B	ND(17.3)	45.9 B	72.9 B	78.1 J	**409.0**	43.0 J	40.2 J
Lead	4.5	ND(3.0)	4.8	9.2	ND(3.0)	6.7	5.4	ND(1.79)	ND(2.18)
Magnesium	9,280.0	8,280.0	7,940.0	7,610.0	9,350.0	8,590.0	8,220.0	8,570.0	9,380.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.09 J	0.04 J
Potassium	1,800.0 B	1,170.0 B	1,340.0 B	1,200.0 B	1,390.0 B	1,410.0 J	1,200.0 J	1,080.0 J	1,350.0 J
Sodium	12,000.0	10,600.0	11,400.0	11,600.0	12,500.0	10,300.0	10,700.0	10,200.0	12,600.0
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate	38.00	44.00	43.00	37.00	81.00	41.00	32.00	32.00	35.00
Chloride	20.00	22.00	30.00	23.00	22.00	22.00	22.00	22.00	22.00
Nitrate	5.90	6.90	6.70	7.20	6.80	6.90	7.30	7.20	7.28
Sulfate	28.00	31.00	26.00	26.00	32.00	31.00	39.00	37.00	40.00
Alkalinity	38.00	44.00	43.00	37.00	82.00	42.00	32.00	32.00	35.00
TDS	140.00	140.00	180.00	120.00	195.00	183.00	172.00	137.00	170.00
Hardness	110.00	88.00	86.00	80.00	96.00	91.00	88.00	89.00	96.00

CW4-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	89.4 J	ND(5.31)	ND(7.6)	ND(200.0)	28.0	40.0	ND(10.0)	ND(10.0)	ND(10.0)
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	8.8 J	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	ND(0.327)	ND(0.327)	ND(0.52)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	22,000.0	25,200.0	29,600.0	25,800.0	24,900.0	24,500.0	23,900.0	24,800.0	24,800.0
Chromium	1.79 J	50.2	7.4 J	2.6 J	2.0	2.0	ND(1.0)	0.8 B	2.3
Iron	ND(27.0)	261.0	ND(30.4)	47.0 J	34.0	4.0	7.0	ND(2.0)	98.6
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	8,700.0	10,100.0	13,100.0	9,900.0	9,590.0	9,310.0	9,340.0	9,310.0	9,700.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	1,430.0 J	995.0 J	206.0 J	1,100.0 J	1,500.0	1,500.0	1,400.0	1,580.0	1,460.0
Sodium	11,600.0	12,800.0	16,200.0	12,100.0	13,600.0	13,100.0	12,600.0	13,500.0	13,200.0
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	0.310	ND(0.200)	0.019 J	0.020	0.020	ND(0.020)	0.07	0.03
Bicarbonate	37.00	39.00	ND(2.00)	38.20	44.00	39.70	38.80	38.00	36.80
Chloride	23.00	24.00	24.00	22.80	21.00	26.00	24.00	22.00	22.00
Nitrate	7.10	7.44	7.43	7.30	7.10	6.70	7.80	7.70	6.80
Sulfate	33.00	11.00	33.00	35.90	33.00	35.00	36.00	38.00	35.00
Alkalinity	37.00	39.00	39.00	38.20	44.00	39.70	38.80	38.00	36.80
TDS	160.00	180.00	180.00	192.00	180.00	170.00	200.00	170.00	200.00
Hardness	90.80	104.76	127.97	105.00	102.00	99.50	98.10	100.00	102.00

CW4-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	55.0	14.0	ND(100.0)	ND(100.0)	ND(100.0)	20.0 J	22.0 J	ND(100.0)	ND(100.0)
Arsenic	ND(4.0)	ND(3.0)	ND(5.0)	ND(5.0)	4.4 J	2.0 J	3.8 J	2.0 J	ND(5.0)
Cadmium	0.7 B	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	32,300.0	26,400.0	27,000.0	26,000.0	24,000.0	22,000.0	22,000.0	23,000.0	21,000.0
Chromium	5.0	ND(1.0)	2.0 J	3.0 J	3.3 J	4.0 J	7.8 J	3.0 J	ND(10.0)
Iron	192.0	20.0	60.0	30.0 J	ND(50.0)	44.0 J	99.0	56.0	24.0 J
Lead	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	2.8 J	ND(10.0)	ND(10.0)
Magnesium	10,800.0	9,570.0	10,000.0	10,000.0	9,600.0	9,200.0	8,900.0	9,600.0	9,000.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	1,400.0	1,600.0	1,600.0 J	1,500.0 J	1,600 J	1,500 J	1,500.0 J	1,400 J	1,400.0 J
Sodium	14,300.0	13,900.0	15,000.0	15,000.0	15,000.0	16,000.0	15,000.0	16,000.0	16,000.0
Leachate Indicators (mg/l)									
Ammonia	ND(0.02)	ND(0.02)	0.10	0.062 J	0.2	0.0	0.065 J	0.103	ND(0.075)
Bicarbonate	41.00	44.00	38.00	37.0	36.0	35.0	36.5	37.2	36.0
Chloride	23.00	22.00	26.00	23.0	24.0	25.0	24.0	25.0	27.0
Nitrate	7.80	7.10	7.00	6.9	7.2	6.9	6.0	6.9	7.4
Sulfate	39.00	34.00	31.00	34.0	37.0	34.0	36.0	36.0	39.0
Alkalinity	41.00	44.00	38.00	37.0	36.0	35.0	36.5	37.2	36.0
TDS	200.00	180.00	190.00	180.0	160.0	140.0	180.0	180.0	180.0
Hardness	125.00	105.00	110.00	110.0	99.0	93.0	93.0	97.0	89.0

CW4-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	ND(100.0)	ND(100.0)	20.0 J	ND(100.0)	332.0	ND(100.0)	40.0 J	ND(100.0)	52.0 J
Arsenic	3.3 J	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	2.0 J	3.0 J	ND(5.0)
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	1.0 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	26,000.0	22,000.0	22,000.0	21,000.0	23,300.0	22,300.0	22,900.0	21,600.0	22,800.0
Chromium	2.7 J	ND(10.0)	2.0 J	ND(10.0)	ND(10.0)	3.0 J	3.0 J	ND(10.0)	2.0 J
Iron	ND(50.0)	ND(50.0)	ND(50.00)	20.0 J	612.0	49.0 J	68.0	17.0 J	39.0 J
Lead	ND(10.0)	ND(10.0)	ND(10.00)	ND(10.0)	22.0	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Magnesium	11,000.0	8,800.0	9,500.0	9,600.0	8,410.0	8,400.0	8,820.0	8,690.0	8,750.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	1,700.0 J	1,400.0 J	1,500.0 J	1,600.0 J	2,040.0 J	1,360.0 J	1,470.0 J	1,480 J	1,540.0 J
Sodium	18,000.0	16,000.0	15,000.0	17,000.0	15,800.0	15,700.0	16,900.0	17,000.0	17,000.0
Leachate Indicators (mg/l)									
Ammonia	0.032 J	0.054 J	ND(0.075)	0.062 J	ND(0.075)	ND (0.075)	ND (0.075)	0.055 J	0.063 J
Bicarbonate	36.30	34.70	35.80	34.7	41.8	36.6	38.5	33.5	38.2
Chloride	26.00	26.00	26.00	26.0	29.0	28.0	32.0	25.0	29.0
Nitrate	7.40	6.50	6.34	6.2	5.1	6.3	5.8	6.3	6.1
Sulfate	30.00	35.00	35.00	32.0	31.0	33.0	29.0	36.0	31.0
Alkalinity	36.30	34.70	35.80	34.7	41.8	36.6	38.5	33.5	38.2
TDS	160.00	190.00	160.00	180.0	180.0	180.0	140.0	180.0	190.0
Hardness	110.00	91.00	93.00	92.0	92.8	90.3	93.5	89.6	93.0

CW4-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	ND(100.0)	ND(100.0)							
Arsenic	ND(5.0)	ND(5.0)							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	22,200.0	22,200.0							
Chromium	ND(10.0)	5.0 J							
Iron	37.0 J	42.0 J							
Lead	5.0 J	ND(10.0)							
Magnesium	8,720.0	8,823.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	1,460.0 J	1,340.0 J							
Sodium	17,200.0	17,100.0							
Leachate Indicators (mg/l)									
Ammonia	0.069 J	0.025 J							
Bicarbonate	37.70	36.20							
Chloride	28.00	32.00							
Nitrate	5.91	6.030							
Sulfate	31.00	29.00							
Alkalinity	37.70	36.20							
TDS	180.00	160.00							
Hardness	91.30	91.30							

EN1-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	1.0 J	0.6 J	1.0 J	ND(1.2)	ND(0.4)	0.7
1,1-Dichloroethane	ND(5.0)	2.0	3.0	3.0 J	3.0 J	ND(1.4)	2.9	2.0	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	2.0 J	2.0 J	ND(1.6)	ND(0.4)	ND(0.3)	1.2
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	**6.2**	**6.0**	**7.0**	**7.0**	**6.0**	**5.3**	2.7	**5.3**	**6.7**
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	0.7 J	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	0.8 J	ND(0.7)	ND(0.6)	1.0	0.9
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

EN1-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	1.0	1.4	1.2	2.0 J	2.1 J	1.6 J	ND(0.28)	2.2 J	ND(0.28)
1,1-Dichloroethane	ND(0.2)	2.2	ND(0.2)	2.4 J	2.6 J	ND(1.3)	ND(0.29)	ND(0.29)	1.2 J
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	1.9	1.3	1.5	ND(0.8)	1.8 J	ND(1.5)	ND(0.30)	1.8 J	0.9 J
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	**6.0**	ND(0.3)	**6.0**	4.6 J	4.6 J	4.2 J	4.5 J	4.7 J	2.7 J
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	1.3	0.9	0.8	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

EN1-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	0.48 JB	ND(5.00)	ND(5.00)	2.2 J	3.0 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	1.7 J	ND(0.33)	1.4 J	1.0 J	ND(5.00)	ND(5.00)	ND(5.00)	0.81 J	1.00 J
1,1-Dichloroethane	1.9 J	ND(0.28)	1.8 J	1.6 J	ND(5.00)	ND(5.00)	ND(5.00)	1.5 J	1.60 J
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	1.2 J	0.7 J	ND(0.18)	0.97 J	ND(5.00)	ND(5.00)	ND(5.00)	0.87 J	0.93 J
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	2.9 J	1.9 J	2.6 J	3.0 J	ND(5.00)	ND(5.00)	1.0 J	1.6 J	1.80 J
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	0.87 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	0.70 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

EN1-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Chloromethane	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	NA	ND(5.00)	1.60 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	1.40 J	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	1.50 J	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	NA	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	NA	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	NA	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	7.20 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

EN1-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	1.80 J	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	6.10 J	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

Intentionally Blank

EN1-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(2.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.26 J	ND(1.00)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	2.40 J	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

Bold indicates value above NYSDEC Class GA Standard

B: The analyte was found in an associated blank, as well as in the sample

EN1-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	71.8 B	119.0 B	ND(34.8)	ND(26.8)	ND(21.3)	ND(200.0)	25.2 B	ND(25.8)	59.0 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	ND(2.0)	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	32,400.0	35,800.0	30,400.0	24,600.0 E	29,900.0	26,400.0	27,300.0	26,800.0	22,300.0
Chromium	ND(1.0)	2.0 B	1.1 B	ND(8.3)	15.2	ND(5.0)	1.3 B	5.6 B	2.1 B
Iron	ND(27.0)	ND(34.0)	ND(22.4)	97.3 B	84.8 B	54.0	ND(21.0)	63.1 B	ND(15.9)
Lead	ND(3.0)	ND(1.6)	ND(1.6)	ND(1.1)	ND(1.5)	ND(4.0)	ND(3.0)	ND(0.6)	ND(2.0)
Magnesium	12,100.0	13,700.0	11,700.0	9,4400 E	11,000.0 E	10,100.0	10,400.0	9,890.0	8,410.0
Mercury	ND(0.2)	ND(0.06)	ND(0.04)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	1,470.0 B	2,520.0 B	1,190.0 B	1,640.0 B	1,640.0 BE	1,470.0	1,260.0 BE	1,270.0 B	1,350.0 B
Sodium	10,800.0	16,500.0 E	14,000.0 E	14,500.0 E	16,300.0 E	14,600.0	15,900.0	12,100.0	14,000.0
Leachate Indicators (mg/l)									
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	1.420	ND(0.200)	ND(0.200)
Bicarbonate		22.20	21.90	24.20	23.40	23.20	24.00	27.00	50.00
Chloride	23.00	24.20	23.00	24.20	26.90	29.00	26.60	29.00	29.00
Nitrate	9.41	8.85	9.50	7.60	8.50	8.83	3.66	8.00	8.80
Sulfate	67.30	52.90	36.30	44.00	54.80	39.60	79.90	43.00	50.00
Alkalinity	23.00	22.20	21.90	24.20	23.40	23.20	25.00	27.00	50.00
TDS	203.00	172.00	165.00	132.00	200.00	148.00	155.00	150.00	150.00
Hardness	43.00	145.44	123.00	100.0 E	120.00	106.00	38.00	110.00	90.00

EN1-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	18.1 B	ND(45.7)	ND(7.3)	ND(10.1)	ND(78.9)	13.5 J	38.0 J	ND(180.0)	19.4 J
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	ND(0.4)	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	28,600.0	26,200.0	23,600.0	22,500.0	23,600.0	25,200.0	25,200.0	26,000.0	24,700.0
Chromium	2.8 B	ND(5.0)	1.1 B	4.3 B	1.7 B	1.4 J	**64.6**	ND(1.22)	0.905 J
Iron	20.3 B	29.2 B	ND(17.3)	ND(16.8)	67.8 B	158.8 J	218.0	43.0 J	41.2 J
Lead	ND(2.5)	ND(3.0)	3.8	9.8	ND(3.0)	5.9	4.0 J	ND(1.79)	ND(2.18)
Magnesium	10,700.0	9,810.0	8,660.0	8,620.0	9,810.0	9,440.0	9,400.0	9,660.0	9,450.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.06 J
Potassium	1,410.0 B	1,270.0 B	1,260.0 B	1,280.0 B	1,530.0 B	1,360.0 J	1,380.0 J	1,410.0	1,500.0 J
Sodium	16,400.0	15,200.0	14,600.0	15,300.0	17,100.0	14,500.0	15,600.0	16,900.0	19,100.0
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate	24.00	34.00	28.00	26.00	77.00	26.00	23.00	24.00	27.00
Chloride	29.00	28.00	37.00	30.00	31.00	32.00	32.00	35.00	33.00
Nitrate	7.40	9.50	9.60	9.60	9.20	9.70	9.60	9.00	8.84
Sulfate	38.00	52.00	46.00	37.00	38.00	44.00	46.00	50.00	49.00
Alkalinity	24.00	34.00	28.00	26.00	77.00	26.00	23.00	24.00	27.00
TDS	190.00	160.00	230.00	160.00	223.00	240.00	215.00	187.00	190.00
Hardness	120.00	110.00	95.00	92.00	99.00	102.00	102.00	105.00	101.00

EN1-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	93.1 J	ND(5.31)	ND(7.6)	ND(200.0)	30.0	13.0	ND(10.0)	ND(10.0)	11.8
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	ND(10.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	0.51 J	ND(0.327)	1.2 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.4 B
Calcium	23,300.0	20,600.0	25,600.0	24,200.0	23,200.0	22,600.0	20,800.0	23,000.0	23,200.0
Chromium	1.56 J	6.77 J	21.1	1.9 J	2.0	2.0	ND(1.0)	1.1	3.7
Iron	ND(27.0)	ND(27.0)	52.5 J	ND(100.0)	28.0	9.0	6.0	6.0	151.0
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	8,580.0	7,770.0	10,200.0	9,200.0	8,550.0	8,520.0	7,780.0	8,340.0	8,590.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	1,420.0 J	1,690.0 J	542.0 J	1,200.0 J	1,430.0	1,500.0	1,400.0	1,580.0	1,460.0
Sodium	17,000.0	19,200.0	18,700.0	17,800.0	18,600.0	18,500.0	**20,200.0**	**19,200.0**	**19,400.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.040)	0.030	0.040	0.030	0.06	0.21
Bicarbonate	28.00	29.00	ND(2.00)	28.40	32.00	28.70	34.50	31.10	29.60
Chloride	33.00	29.00	29.00	26.20	24.00	30.00	27.00	26.00	26.00
Nitrate	8.66	8.76	8.96	8.50	9.20	8.30	**10.00**	9.90	**10.00**
Sulfate	42.00	41.00	43.00	40.10	41.00	39.00	37.00	37.00	36.00
Alkalinity	28.00	29.00	30.00	28.40	32.00	28.70	34.50	31.10	29.60
TDS	190.00	220.00	210.00	193.00	140.00	190.00	210.00	180.00	210.00
Hardness	93.60	83.52	106.03	98.10	93.10	91.50	84.00	91.80	93.30

EN1-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Aluminum	41.0	NA	60.0 J	ND(100.0)	56.0 J	40.0 J	ND(100.0)	93.0 J	410.0
Arsenic	ND(4.0)	NA	ND(5.0)	ND(5.0)	ND(5.0)	2.0 J	3.2 J	3.2 J	ND(5.0)
Cadmium	3.0	NA	3.0 J	2.0 J	1.1 J	2.0 J	1.0 J	4.4 J	**28.8**
Calcium	24,200.0	NA	20,000.0	20,000.0	5,300.0	7,700.0	2,700.0	4,600.0	8,400.0
Chromium	2.0	NA	2.0 J	ND(10.0)	2.1 J	4.0 J	ND(10.0)	3.4 J	4.7 J
Iron	**3,510.0**	NA	**4,700.0**	**410.0**	**4,000.0**	**3,600.0**	110.0	**2,900.0**	**20,000.0**
Lead	ND(2.0)	NA	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	34.2	2.1 J	5.2 J
Magnesium	8,640.0	NA	7,000.0	7,400.0	1,200.0	2,000.0	620.0	1,000.0	1,500.0
Mercury	ND(0.2)	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.09 J
Potassium	1,300.0	NA	2,100.0 J	1,700.0 J	5,600.0	5,800.0	1,500.0 J	3,000.0	4,500.0
Sodium	**20,800.0**	NA	**24,000.0**	**24,000.0**	5,600.0	7,100.0	5,500.0	3,700.0	3,400.0
Leachate Indicators (mg/l)									
Ammonia	0.03	NA	0.13	0.1	0.1	0.2	0.025 J	0.3	0.9
Bicarbonate	29.00	NA	26.00	25.0	24.0	29.0	8.9	20.3	31.4
Chloride	25.00	NA	33.00	35.0	8.3	12.0	7.2	5.2	5.3
Nitrate	**10.00**	NA	7.20	7.0	0.084 J	0.022 J	0.5	ND(0.1)	0.1
Sulfate	35.00	NA	22.00	27.0	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Alkalinity	29.00	NA	26.00	25.0	24.0	29.0	8.9	20.3	31.4
TDS	200.00	NA	170.00	160.0	69.0	56.0	40.0	42.0	46.0
Hardness	96.00	NA	78.00	81.0	18.0	27.0	9.2	16.0	27.0

EN1-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	95.0 J	30.0 J	30.0 J	60.0 J	51.0 J	699.0	458.0	40.0 J	55.0 J
Arsenic	5.1	2.0 J	ND(5.00)	ND(5.0)	ND(5.0)	**60.0**	ND(5.0)	ND(5.0)	**ND(5.0)**
Cadmium	**8.2**	1.0 J	1.0 J	1.0 J	1.0 J	**53.0**	1.0 J	ND(5.0)	**ND(5.0)**
Calcium	10,000.0	3,300.0	10,000.0	6,300.0	8,720.0	12,900.0	8,620.0	2,580.0	**4,220.0**
Chromium	2.4 J	ND(10.0)	ND(10.00)	3.0 J	ND(10.0)	26.0	ND(10.0)	ND(10.0)	**ND(10.0)**
Iron	**8,600.0**	**490.0**	**2,600.0**	**3,900.0**	**2,660.0**	**15,300.0**	**7,340.0**	**730.0**	**760.0**
Lead	ND(10.0)	3.0 J	3.0 J	ND(10.0)	ND(10.0)	17.0	18.0	ND(10.0)	**ND(10.0)**
Magnesium	2,100.0	620.0	2,500.0	1,300.0	1,490.0	951.0	1,140.0	492.0	**723.0**
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	**ND(0.1)**
Potassium	5,700.0	2,600.0	5,200.0	6,700.0	5,750.0	1,370.0 J	5,480.0	1,150.0	**2,990.0**
Sodium	4,600.0	3,300.0	6,300.0	3,900.0	2,750.0	2,230.0	2,460.0	2,150.0	**1,460.0 J**
Leachate Indicators (mg/l)									
Ammonia	0.45	0.034 J	0.394	0.134	0.163	0.040 J	0.175	0.168	**0.395**
Bicarbonate	39.70	13.00	38.50	25.7	34.5	10.2	19.5	7.3	13.3
Chloride	6.60	4.80	11.00	6.5	4.2	2.7	3.7	2.9	2.8
Nitrate	ND(0.1)	0.045 J	0.023 J	0.53 J	ND(0.10)	0.3	0.051 J	0.3	0.052 J
Sulfate	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	1.6 J	ND(10.0)	1.40 J	ND(10.0)
Alkalinity	39.70	13.00	38.50	25.7	34.5	10.2	19.5	7.3	13.3
TDS	61.00	34.00	95.00	60.0	70.0	42.0	43.0	98.0	24.0
Hardness	35.00	11.00	36.00	21.0	27.9	36.1	26.2	36.1	13.5

EN1-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	ND(100.0)	132.0							
Arsenic	ND(5.00)	ND(5.0)							
Cadmium	ND(5.0)	**100.0 J**							
Calcium	4,480.0	5,090.0							
Chromium	ND(10.0)	ND(10.0)							
Iron	**760.0**	**2,160.0**							
Lead	4.0 J	ND(10.0)							
Magnesium	879.0	1,040.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	5,140.0	6,010.0							
Sodium	2,100.0	2,226.0							
Leachate Indicators (mg/l)									
Ammonia	0.236	0.319							
Bicarbonate	16.10	20.20							
Chloride	3.40	4.30							
Nitrate	ND(0.10)	ND(0.10)							
Sulfate	ND(10.0)	ND(10.0)							
Alkalinity	16.10	20.20							
TDS	41.00	40.00							
Hardness	14.80	17.00							

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN6-S
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.7 J	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.7 J	ND(0.5)	ND(0.5)	ND(0.3)	2.7
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.6)	ND(0.3)	1.0
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

EN6-S (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	0.8	0.7	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	2.1 J	1.6 J
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	1.2	ND(0.3)	ND(0.3)	1.6 J	1.7 J	1.4 J	ND(0.34)	ND(0.34)	0.3 J
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	0.6	ND(0.3)	ND(1.0)	1.3 J	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

EN6-S (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.5 J	3.0 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	1.1 J	ND(0.18)	ND(0.18)	0.58 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	0.5 J	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	0.59 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

EN6-S (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	1.40 J	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	0.74 J	ND(1.50)	ND(1.50)	ND(1.50)	0.79 J	0.54 J	0.73 J	0.49 J
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	10.00	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

EN6-S (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	0.55 J	ND(1.50)	ND(1.50)	ND(1.50)	0.63	ND(1.00)	ND(1.00)	0.54 J	0.57 J
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	0.31 J	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

EN6-S (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	0.46 J	0.58 J							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.0)	ND(10.0)							

Bold indicates value above NYSDEC Class GA Standard

B: The analyte was found in an associated blank, as well as in the sample

EN6-S
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	79.3 B	209.0	ND(34.8)	ND(26.8)	ND(21.3)	ND(200.0)	40.5 B	ND(25.8)	78.7 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	ND(2.0)	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	16,900.0	20,700.0	15,500.0	13,700.0 E	15,800.0	11,700.0	1,200.0	11,300.0	12,700.0
Chromium	16.8	31.6	2.0 B	ND(8.3)	11.8	6.0	6.9 B	8.8 B	2.0 B
Iron	245.0	**563.0**	ND(22.4)	20.5 B	131.0	296.0	81.3 B	96.8 B	16.4 B
Lead	ND(3.0)	ND(1.6)	ND(1.6)	ND(1.1)	ND(1.5)	ND(4.0)	ND(3.0)	2.0 B	ND(2.0)
Magnesium	7,700.0	9,840.0	7,400.0	6,190.0 E	6,960.0 E	5,500.0	5,680.0	5,030.0	5,900.0
Mercury	ND(0.2)	ND(0.06)	0.04 B	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	1,540.0 B	3,320.0 B	1,270.0 B	1,480.0 B	1,680.0 BE	1,370.0	1,170.0 B	1,230.0 B	1,560.0 B
Sodium	2,130.0	**32,600.0 E**	**26,200.0 E**	**23,800.0 E**	**26,800.0 E**	**23,000.0**	**20,200.0**	**26,200.0**	**26,900.0**
Leachate Indicators (mg/l)									
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	1.290	ND(0.200)	ND(0.200)
Bicarbonate		15.20	12.90	13.20	17.00	13.50	11.00	16.00	34.00
Chloride	62.00	42.20	44.50	36.10	47.20	36.70	37.20	48.00	49.00
Nitrate	7.37	**13.00**	6.00	5.60	5.80	5.49	3.91	3.70	6.60
Sulfate	21.80	31.30	24.90	20.50	21.80	22.00	26.20	22.00	24.00
Alkalinity	14.00	15.20	12.90	13.20	17.00	13.50	12.00	16.00	34.00
TDS	174.00	101.00	139.00	164.00	196.00	92.00	115.00	130.00	150.00
Hardness	22.00	92.09	69.10	59.60 E	68.10	51.40	18.00	49.00	56.00

EN6-S (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	30.4 B	217.0	ND(7.3)	51.6 B	ND(78.9)	85.0 J	59.2 J	ND(180.0)	16.2 J
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	ND(0.4)	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	17,400.0	14,100.0	12,700.0	14,100.0	14,500.0	13,300.0	12,200.0	14,000.0	11,900.0
Chromium	**430.0**	41.3	14.1	46.2	22.8	37.8	7.9 J	7.8 J	2.74 J
Iron	**2,100.0**	**1,280.0**	207.0	**468.0**	249.0	**482.0**	66.6 J	**381.0**	31.4 J
Lead	ND(2.5)	ND(3.0)	5.2	7.9	ND(3.0)	6.9	4.4 J	ND(1.79)	ND(2.18)
Magnesium	8,180.0	6,560.0	5,810.0	6,810.0	7,290.0	6,270.0	5,660.0	6,080.0	5,620.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.09 J
Potassium	1,840.0 B	1,570.0 B	1,520.0 B	1750.0 B	1,870.0 B	1,740.0 J	1,540.0 J	1,610.0 J	1,850.0 J
Sodium	**33,400.0**	**28,100.0**	**26,100.0**	**30,100.0**	**34,300.0**	**27,900.0**	**25,200.0**	**24,200.0**	**32,900.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.400	2.500	**0.356**	ND(0.200)
Bicarbonate	16.00	24.00	16.00	13.00	14.00	14.00	9.50	11.00	14.00
Chloride	45.00	48.00	57.00	46.00	49.00	48.00	48.00	57.00	51.00
Nitrate	6.80	6.90	7.20	8.30	7.40	7.60	6.30	6.20	5.35
Sulfate	27.00	25.00	26.00	28.00	28.00	29.00	23.00	26.00	24.00
Alkalinity	16.00	24.00	16.00	13.00	14.00	14.00	9.50	11.00	14.00
TDS	170.00	140.00	200.00	160.00	196.00	214.00	172.00	216.00	150.00
Hardness	77.00	62.00	56.00	64.00	66.00	59.00	54.00	60.00	53.00

EN6-S (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	137.0 J	ND(5.31)	ND(7.6)	ND(200.0)	23.0	11.0	ND(10.0)	ND(10.0)	44.2
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	ND(10.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	0.6 J	ND(0.327)	1.2 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	11,800.0	9,920.0	13,400.0	11,700.0	11,400.0	13,400.0	13,200.0	14,800.0	14,300.0
Chromium	4.33 J	15.8	10.6	6.1 J	2.0	4.0	ND(1.0)	ND(1.0)	9.9
Iron	111.0	ND(27.0)	71.6 J	68.0 J	44.0	26.0	26.0	22.0	179.0
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	5,330.0	4,620.0 J	6,580.0	5,500.0	5,150.0	6,190.0	5,990.0	6,630.0	6,400.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	1,610.0 J	1,710.0 J	1,120.0 J	1,400.0 J	1,740.0	2,000.0	1,800.0	2,320.0	2,110.0
Sodium	**26,400.0**	**26,900.0**	**27,500.0**	**23,100.0**	**24,200.0**	**23,100.0**	**26,700.0**	**31,000.0**	**28,800.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	0.400	ND(0.200)	0.016 J	ND(0.020)	0.020	ND(0.020)	0.10	0.04
Bicarbonate	15.00	17.00	ND(2.00)	14.70	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)
Chloride	54.00	34.00	40.00	37.10	35.00	41.00	44.00	52.00	54.00
Nitrate	5.62	5.35	4.95	5.20	6.10	5.20	6.80	7.20	6.40
Sulfate	21.00	22.00	18.00	19.70	24.00	22.00	26.00	27.00	24.00
Alkalinity	15.00	17.00	18.00	14.70	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)
TDS	180.00	140.00	150.00	134.00	160.00	140.00	180.00	170.00	200.00
Hardness	51.40	43.81	60.58	51.70	49.70	59.00	57.60	64.30	62.10

EN6-S (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	13.0	75.0	ND(100.0)	30.0 J	54.0 J	40.0 J	120.0	54.0 J	30.0 J
Arsenic	ND(4.0)	ND(3.0)	ND(5.0)	ND(5.0)	2.7 J	ND(5.0)	3.7 J	3.1 J	ND(5.0)
Cadmium	0.3 B	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	17,700.0	8,930.0	16,000.0	14,000.0	16,000.0	15,000.0	14,000.0	13,000.0	12,000.0
Chromium	16.0	**51.0**	4.0 J	8.0 J	**100.0**	**100.0**	340.0	11.0	10.0
Iron	116.0	**470.0**	70.0	140.0	**770.0**	190.0	2,400.0	220.0	240.0
Lead	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	2.4 J	ND(10.0)	ND(10.0)
Magnesium	7,710.0	3,820.0	7,200.0	6,500.0	6,800.0	6,300.0	6,200.0	5,600.0	5,700.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	1,900.0	1,700.0	2,500.0	2,200.0 J	2,300.0 J	2,500.0	2,300.0 J	2,300 J	2,100.0 J
Sodium	**34,800.0**	**65,000.0**	**37,000.0**	**32,000.0**	**34,000.0**	**39,000.0**	35,000.0	**39,000.0**	**40,000.0**
Leachate Indicators (mg/l)									
Ammonia	0.03	ND(0.02)	0.047 J	0.058 J	0.041 J	0.041 J	0.029 J	0.070 J	ND(0.075)
Bicarbonate	ND(20.00)	22.00	14.00	14.0	14.0	14.0	14.6	15.0	14.6
Chloride	60.00	88.00	53.00	45.0	56.0	60.0	51.0	62.0	62.0
Nitrate	6.70	1.80	5.20	5.7	6.6	6.3	6.4	4.8	6.7
Sulfate	28.00	18.00	25.00	24.0	30.0	28.0	33.0	27.0	27.0
Alkalinity	ND(20.00)	22.00	14.00	14.0	14.0	14.0	14.6	15.0	14.6
TDS	200.00	210.00	200.00	150.0	210.0	180.0	200.0	170.0	140.0
Hardness	75.90	38.00	69.00	62.0	67.0	63.0	61.0	56.0	54.0

EN6-S (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	240.0	70.0 J	43.0 J	80.0 J	59.0 J	57.0 J	48.0 J	ND(100.0)	ND(100.0)
Arsenic	3.2 J	ND(5.0)	4.9 J	ND(5.0)	4.0 J	ND(5.0)	ND(5.0)	2.0 J	ND(5.0)
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	12,000.0	14,000.0	13,000.0	13,000.0	14,100.0	13,900.0	10,200.0	14,700.0	15,200.0
Chromium	**210.0**	10.0	25.0	**60.0**	**55.0**	**258.0**	26.0	3.0 J	4.0 J
Iron	**1,900.0**	**360.0**	250.0	**550.0**	**493.0**	**1,410.0**	254.0	14.0 J	35.0 J
Lead	ND(10.0)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Magnesium	5,300.0	6,400.0	6,100.0	7,000.0	6,350.0	6,250.0	4,260.0	6,280.0	6,810.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	1,900.0 J	2,300.0 J	2,300.0 J	2,700.0	2,640.0	2,750.0	1,820 J	2,580.0	2,560.0
Sodium	**35,000.0**	**40,000.0**	**37,000.0**	**39,000.0**	**39,400.0**	**46,700.0**	**44,200.0**	**42,400.0**	**42,500.0**
Leachate Indicators (mg/l)									
Ammonia	0.032 J	0.08	ND(0.075)	0.061 J	ND(0.075)	ND (0.075)	ND (0.075)	0.034 J	**0.052 J**
Bicarbonate	14.60	14.10	14.00	14.7	15.2	15.5	17.8	12.6	11.8
Chloride	65.00	60.00	56.00	53.0	60.0	58.0	66.0	62.0	70.0
Nitrate	6.30	6.17	7.07	7.6	7.5	9.0	4.0	6.9	6.1
Sulfate	22.00	25.00	27.00	28.0	29.0	30.0	13.0	25.0	26.0
Alkalinity	14.60	14.10	14.00	14.7	15.2	15.5	17.8	12.6	11.8
TDS	180.00	210.00	170.00	190.0	200.0	220.0	190.0	240.0	200.0
Hardness	52.00	62.00	57.00	62.0	61.5	60.4	43.0	62.6	66.0

EN6-S (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	43.0 J	139.0							
Arsenic	ND(5.0)	ND(5.0)							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	14,900.0	13,900.0							
Chromium	**191.0**	**217.0**							
Iron	**1,200.0**	**1,750.0**							
Lead	ND(10.0)	ND(10.0)							
Magnesium	6,940.0	6,210.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	2,800.0	2,460.0 J							
Sodium	**44,300.0**	**43,900.0**							
Leachate Indicators (mg/l)									
Ammonia	ND(0.075)	0.062 J							
Bicarbonate	12.40	13.20							
Chloride	74.00	70.00							
Nitrate	6.740	6.360							
Sulfate	24.00	23.00							
Alkalinity	12.40	13.20							
TDS	220.00	180.00							
Hardness	65.80	60.30							

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN6-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.8 J	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	**5.0**	**9.0**	**14.0**	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	2.0 J	2.0 J	2.1	1.4	2.8	1.8
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	7.0	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	4.6	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	**12.0**	**11.0**	**12.0**	**12.0**	**12.0**	**9.3**	**13.0**	**12.0**	**12.0**
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

EN6-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	1.2 J	ND(1.3)	ND(0.29)	ND(0.29)	0.9 J
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	2.4	2.4	2.1	2.5 J	2.3 J	ND(0.1)	ND(0.27)	2.4 J	1.4 J
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	**14.0**	**9.1**	**11.0**	**9.5**	**8.8**	2.5 J	**5.1**	**9.5**	4.4 J
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

EN6-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.8 J	2.8 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	1.3 J	ND(0.28)	ND(0.28)	0.91 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	0.17 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	**1.5 J**	0.9 J	1.1 J	1.1 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	4.9 J	2.4 J	4.2 J	**6.9**	ND(5.00)	ND(5.00)	0.87 J	1.0 J	0.86 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

EN6-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	NA	ND(5.00)	ND(5.00)	1.80 J	ND(5.0)	ND(5.00)	2.00 J	ND(5.00)
Vinyl Chloride	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	0.56 J
*1,2-Dichloroethene, Total	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	0.29 J
1,2-Dichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	NA	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	NA	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	0.93 J	NA	0.83 J	0.73 J	ND(1.50)	ND(1.50)	0.43 J	0.84 J	1.40 J
Toluene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	NA	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	9.10 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	0.40 J

EN6-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	0.69 J	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	1.50	0.72 J	1.2 J	0.60 J	ND(1.5)	ND(1.50)	0.76 J	0.78 J	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

EN6-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.50)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.75 J	0.29 J							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

EN6-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	77.7 B	147.0 B	ND(34.8)	283.0	ND(21.3)	ND(200.0)	25.9 B	ND(25.8)	74.7 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	ND(2.0)	3.7 B	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.50)	ND(0.50)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	118,000.0	132,000.0	116,000.0	113,000.0 E	118,000.0	111,000.0	120,000.0	124,000.0	93,600.0
Chromium	ND(1.0)	20.0 B	ND(1.0)	ND(8.3)	ND(8.2)	ND(5.0)	ND(1.0)	5.2 B	0.78 B
Iron	ND(27.0)	ND(34.0)	23.3 B	**736.0 B**	118.0	ND(50.0)	ND(21.0)	118.0	ND(15.9)
Lead	ND(3.0)	ND(1.6)	ND(1.6)	1.2 B	2.7 B	ND(4.0)	ND(3.0)	0.87 B	2.6 B
Magnesium	34,300.0	**39,900.0**	**35,100.0**	30,400.0 E	31,600.0 E	30,500.0	32,400.0	29,300.0	24,600.0
Mercury	ND(0.2)	ND(0.06)	0.04 B	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	3,780.0 B	6,900.0	2,890.0 B	3,080.0 B	3,560.0 BE	3,390.0	4,000.0 BE	4,740.0 B	4,000.0 B
Sodium	**66,100.0**	**81,100.0 E**	**83,200.0 E**	**72,000.0 E**	**78,700.0 E**	**76,100.0**	**66,700.0**	**78,600.0**	**74,100.0**
Leachate Indicators (mg/l)									
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	1.140	ND(0.200)	ND(0.200)
Bicarbonate		123.00	128.00	132.00	126.00	144.00	148.00	130.00	160.00
Chloride	248.00	250.00	250.00	**649.00**	217.00	222.00	198.00	180.00	190.00
Nitrate	2.77	2.46	ND(0.04)	1.80	2.00	2.04	1.01	2.90	3.00
Sulfate	105.00	89.00	51.00	105.00	132.00	177.00	204.00	57.00	130.00
Alkalinity	123.00	123.00	128.00	132.00	126.00	144.00	149.00	130.00	160.00
TDS	740.00	745.00	598.00	804.00	800.00	727.00	567.00	530.00	540.00
Hardness	150.00	494.39	434.00	406.00 E	426.00	398.00	225.00	430.00	340.00

EN6-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	5/03	10/03	6/04	10/04	4/05
Aluminum	11.3 B	ND(45.7)	ND(7.3)	ND(10.1)	ND(78.9)	18.0 J	46.8 J	ND(180.0)	56.1 J
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	ND(0.4)	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	0.2 J	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	94,300.0	77,400.0	92,500.0	80,600.0	79,300.0	58,500.0	78,900.0	73,000.0	70,900.0
Chromium	12.7	ND(5.0)	0.77 B	4.6 B	ND(1.0)	1.6 J	4.0 J	ND(1.22)	0.545 J
Iron	83.9 B	20.1 B	ND(17.3)	25.9 B	27.9 B	ND(5.2)	ND(0.91)	30.9 J	154.0
Lead	ND(2.5)	ND(3.0)	4.9	6.4	4.2	5.0	6.3	ND(1.79)	ND(2.180)
Magnesium	30,800.0	25,600.0	22,300.0	23,400.0	20,700.0	21,400.0	21,500.0	20,100.0	20,000.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.09 J
Potassium	4,430.0 B	3,800.0 B	4,150.0 B	4,470.0 B	4,040.0 B	2,800.0 J	4,530.0 J	4,520.0 J	4,530.0 J
Sodium	**83,000.0**	**72,300.0**	**67,400.0**	**71,600.0**	**61,800.0**	**40,600.0**	**57,100.0**	**54,100.0**	**60,600.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.400	1.700	ND(0.200)	0.251
Bicarbonate	130.00	150.00	140.00	150.00	150.00	130.00	150.00	140.00	140.00
Chloride	140.00	120.00	160.00	100.00	130.00	74.00	120.00	120.00	110.00
Nitrate	2.40	3.60	3.30	2.80	3.50	4.50	5.10	5.20	5.86
Sulfate	100.00	150.00	14.00	86.00	150.00	120.00	180.00	120.00	120.00
Alkalinity	130.00	150.00	150.00	150.00	150.00	130.00	150.00	140.00	140.00
TDS	580.00	460.00	620.00	410.00	566.00	465.00	526.00	475.00	510.00
Hardness	360.00	300.00	320.00	300.00	280.00	234.00	286.00	265.00	259.00

EN6-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	100.0 J	ND(5.31)	ND(7.6)	ND(200.0)	66.0	24.0	ND(10.0)	ND(10.0)	ND(10.0)
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	ND(10.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	1.02 J	ND(0.327)	2.0 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.4 B
Calcium	71,700.0	50,100.0	79,500.0	64,900.0	59,700.0	55,800.0	37,800.0	34,600.0	34,900.0
Chromium	1.54 J	2.57 J	14.1	ND(10.0)	**52.0**	ND(1.0)	ND(1.0)	ND(1.0)	0.8 B
Iron	ND(27.0)	ND(27.0)	ND(30.4)	ND(100.0)	259.0	6.0	28.0	54.0	115.0
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	19,800.0	17,500.0	26,300.0	19,700.0	18,100.0	16,700.0	9,460.0	9,330.0	8,080.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	4,480.0 J	3,210.0 J	3,820.0 J	3,300.0 J	3,520.0	3,700.0	2,300.0	2,890.0	2,470.0
Sodium	**58,000.0**	**46,300.0**	**65,200.0**	**48,200.0**	**47,800.0**	**48,800.0**	**31,800.0**	**29,700.0**	**26,400.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	0.350	ND(0.200)	0.015 J	ND(0.200)	ND(0.020)	ND(0.020)	0.11	0.03
Bicarbonate	130.00	120.00	ND(2.00)	120.00	150.00	114.00	76.80	72.20	65.50
Chloride	110.00	67.00	99.00	95.50	88.00	86.00	46.00	45.00	42.00
Nitrate	6.28	9.07	6.75	5.90	6.60	6.40	**11.00**	8.60	9.30
Sulfate	91.00	65.00	79.00	81.40	72.00	67.00	36.00	31.00	28.00
Alkalinity	130.00	120.00	120.00	120.00	150.00	114.00	76.80	72.20	65.50
TDS	500.00	370.00	460.00	415.00	360.00	360.00	270.00	230.00	250.00
Hardness	260.50	197.23	306.94	243.00	224.00	208.00	133.00	125.00	120.00

EN6-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	ND(10.0)	NA	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)
Arsenic	ND(4.0)	NA	ND(5.0)	ND(5.0)	2.5 J	2.0 J	4.3 J	2.7 J	ND(5.0)
Cadmium	0.4 B	NA	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	36,700.0	NA	29,000.0	33,000.0	31,000.0	29,000.0	28,000.0	31,000.0	29,000.0
Chromium	0.5 B	NA	9.0 J	ND(10.0)	3.0 J	3.6 J	2.4 J	3.8 J	3.1 J
Iron	41.0	NA	**960.0**	110.0	210.0	140.0	47.0 J	76.0	36.0 J
Lead	ND(2.0)	NA	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	2.9 J	ND(10.0)	ND(10.0)
Magnesium	8,860.0	NA	7,200.0	7,200.0	7,000.0	6,700.0	6,900.0	7,600.0	9,000.0
Mercury	ND(0.2)	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	2,300.0	NA	4,200.0	2,900.0	3,000.0	3,200.0	2,600.0	3,900.0	3,400.0
Sodium	**31,500.0**	NA	**28,000.0**	**32,000.0**	**33,000.0**	**34,000.0**	**36,000.0**	**37,000.0**	**39,000.0**
Leachate Indicators (mg/l)									
Ammonia	0.03	NA	0.08	0.073 J	0.1	ND(0.075)	0.030 J	0.073 J	ND(0.075)
Bicarbonate	61.00	NA	50.00	54.0	53.0	58.0	53.5	52.4	57.5
Chloride	48.00	NA	53.00	52.0	53.0	54.0	67.0	72.0	73.0
Nitrate	8.70	NA	5.20	7.8	7.9	7.0	5.9	5.5	7.1
Sulfate	24.00	NA	17.00	24.0	23.0	23.0	25.0	24.0	28.0
Alkalinity	61.00	NA	50.00	54.0	53.0	58.0	53.5	52.4	57.5
TDS	240.00	NA	180.00	220.0	240.0	230.0	260.0	240.0	260.0
Hardness	128.00	NA	100.00	110.0	100.0	100.0	100.0	110.0	110.0

EN6-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	ND(100.0)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.0)	72.0 J	ND(100.0)	ND(100.0)	ND(100.0)
Arsenic	5.7	2.0 J	3.7 J	ND(5.0)	2.0 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	37,000.0	28,000.0	30,000.0	26,000.0	27,400.0	6,390.0	28,200.0	24,700.0	20,300.0
Chromium	2.4 J	3.0 J	2.9 J	10.0	8.0 J	3.0 J	ND(10.0)	4.0 J	ND(10.0)
Iron	31.0 J	80.0	54.0	200.0	80.0	**1,820.0**	19.0 J	50.0 J	58.0
Lead	ND(10.0)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Magnesium	11,000.0	7,300.0	9,500.0	7,000.0	6,680.0	1,820.0	8,270.0	6,930.0	4,660.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	4,000.0	4,000.0	3,400.0	4,200.0	3,830.0	8,760.0	2,980.0	2,900.0	2,810.0
Sodium	**46,000.0**	**45,000.0**	**42,000.0**	**48,000.0**	**46,900.0**	4,930.0	**52,900.0**	**52,100.0**	**54,400.0**
Leachate Indicators (mg/l)									
Ammonia	0.066 J	0.10	ND(0.075)	0.066 J	0.028J	0.485	ND (0.075)	0.092	**0.107**
Bicarbonate	60.40	56.30	58.00	51.7	56.1	32.3	60.0	59.4	50.5
Chloride	86.00	75.00	76.00	71.0	82.0	7.2	85.0	75.0	71.0
Nitrate	6.27	5.22	6.31	5.02	4.09	0.17	4.36	4.36	4.73
Sulfate	27.00	24.00	29.00	25.0	21.0	ND(10.00)	24.0	24.0	21.0
Alkalinity	60.40	56.30	58.00	51.7	56.1	32.3	60.0	59.4	50.5
TDS	290.00	280.00	230.00	260.0	250.0	71.0	280.0	320.0	240.0
Hardness	140.00	100.00	110.00	93.0	96.0	23.4	104.0	90.2	69.8

EN6-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	ND(100.0)	ND(100.0)							
Arsenic	ND(5.0)	ND(5.0)							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	24,300.0	21,100.0							
Chromium	11.0	7.0 J							
Iron	123.0	103.0							
Lead	ND(10.0)	ND(10.0)							
Magnesium	6,820.0	4,690.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	2,970.0	2,690.0							
Sodium	**51,500.0**	**52,300.0**							
Leachate Indicators (mg/l)									
Ammonia	0.034 J	ND(0.075)							
Bicarbonate	57.50	48.80							
Chloride	82.00	74.00							
Nitrate	4.580	4.980							
Sulfate	24.00	21.00							
Alkalinity	57.50	48.80							
TDS	260.00	250.00							
Hardness	88.70	72.00							

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN7-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	**3.0**	ND(1.0)	**3.0 J**	**4.0 J**	ND(1.7)	1.1 J	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	2.1	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	0.8 J	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	0.5 J	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	1.0 J	1.0 J	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	**32.0**	**32.0**	**27.0**	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.5 J	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	**5.2**	**8.0**	**9.0**	**9.0**	**9.0**	**6.9**	3.5	**7.6**	**5.2**
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.7 J	ND(0.5)	ND(0.6)	ND(0.3)	**0.8**
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	14.0	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	4.6	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	**14.0**	**38.0**	**32.0**	**35.0**	**35.0**	**22.0**	**28.0**	**27.0**	**25.0**
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	1.1	1.1

EN7-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	2.3	ND(1.2)	**5.4**	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	1.70 J	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	2.0	2.0	2.3 J	2.4 J	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	**8.0**	**6.1**	**7.0**	**7.2**	**7.3**	**5.7**	**5.3**	**7.6**	**6.1**
Benzene	**0.9**	**0.9**	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	**33.0**	**23.0**	**21.0**	**24.0**	**21.0**	**11.0**	**14.0**	**19.0**	**13.0**
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	0.90 J	1.00 J
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	1.1	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	1.8 J	ND(0.30)	2.50 J	**3.6 J**

EN7-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	**3.8 J**	1.0 J	ND(0.62)	1.1 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.7 J	2.8 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	2.7 J	ND(0.28)	1.8 J	1.5 J	ND(5.00)	ND(5.00)	1.1 J	ND(5.0)	ND(5.0)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	**5.8**	**5.7**	**7.8**	**8.9**	ND(5.00)	ND(5.00)	**6.1**	**5.0**	**6.00**
Benzene	0.90 J	ND(0.35)	ND(0.35)	0.56 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	0.50 J
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	**10.0**	ND(0.74)	2.3 J	0.91 J	**5.3**	**5.2**	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	1.8 J	1.4 J	1.3 J	1.6 J	ND(5.00)	ND(5.00)	1.4 J	1.3 J	1.30 J
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	0.9 J	0.8 J	ND(0.67)	0.55 J	ND(5.00)	ND(5.00)	0.77 J	0.75 J	0.76 J
1,3-Dichlorobenzene	ND(0.65)	**3.4 J**	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	**3.2 J**	2.9 J	2.7 J	1.7 J	ND(5.00)	ND(5.00)	2.5 J	2.6 J	2.60 J

EN7-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	1.30 J	ND(5.00)
Vinyl Chloride	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	NA	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	NA	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	NA	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	NA	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	NA	**5.90 J**	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	NA	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	NA	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	8.20 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	**5.5**	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

EN7-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	1.40 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	0.64 J	0.96 J	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	1.00 J	0.72 J	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	2.10	1.00	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	0.54 J	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	1.10 J	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	1.10 J	1.10 J	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	1.70 J	1.60 J	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	3.50	2.60	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

EN7-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND1.00	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:

ND( ): Compound not detected at method detection limit

*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN7-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	67.9 B	166.0 B	ND(34.8)	ND(26.8)	32.6 B	ND(200.0)	33.0 B	40.2 B	90.4 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	ND(2.0)	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	0.61 B	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	80,800.0	88,100.0	89,300.0	87,500.0 E	87,600.0	80,300.0	86,600.0	86,900.0	75,400.0
Chromium	ND(1.0)	3.3 B	ND(1.0)	ND(8.3)	ND(8.2)	ND(5.0)	ND(1.0)	ND(1.3)	ND(0.7)
Iron	ND(27.0)	263.0	117.0	35.5 B	13.6 B	ND(50.0)	ND(21.0)	49.2 B	ND(15.9)
Lead	3.8	ND(1.6)	ND(1.6)	ND(1.1)	1.6 B	ND(4.0)	ND(3.0)	ND(0.6)	ND(2.0)
Magnesium	30,400.0	**36,300.0**	**36,800.0**	33,200.0 E	33,800.0 E	33,100.0	**35,600.0**	**36,400.0**	31,100.0
Mercury	ND(0.2)	ND(0.06)	0.11 B	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	4,540.0 B	7,260.0	3,130.0 B	3,280.0 B	3,880.0 BE	3,710.0	4,750.0 BE	5,590.0	5,330.0
Sodium	**110,000.0**	**135,000.0 E**	**168,000.0 E**	**150,000.0 E**	**164,000.0 E**	**192,000.0**	**183,000.0**	**252,000.0**	**247,000.0**
Leachate Indicators (mg/l)									
Ammonia	**2.520**	ND(0.250)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	ND(0.100)	ND(0.200)	ND(0.200)
Bicarbonate		84.90	86.73	99.00	109.00	140.00	150.00	180.00	200.00
Chloride	239.00	**254.00**	**253.00**	**264.00**	**253.00**	**273.00**	**278.00**	**290.00**	**270.00**
Nitrate	5.00	5.15	2.88	2.70	2.40	1.89	0.603	1.00	0.70
Sulfate	236.00	229.00	97.90	225.00	221.00	245.00	**351.00**	210.00	200.00
Alkalinity	62.00	84.90	86.70	99.00	109.00	140.00	151.00	180.00	200.00
TDS	856.00	1,020.00	6,990.00	860.00	956.00	953.00	729.00	740.00	750.00
Hardness	111.00	369.03	374.00	355.0 E	358.00	334.00	226.00	670.00	320.00

EN7-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	5/03	10/03	6/04	10/04	4/05
Aluminum	87.0 B	ND(45.7)	ND(7.3)	ND(10.1)	ND(78.9)	29.8 J	55.0 J	ND(180.0)	9.62 J
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	0.46 B	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	89,900.0	86,200.0	82,800.0	79,900.0	83,700.0	90,500.0	91,700.0	84,500.0	93,500.0
Chromium	7.2 B	ND(5.0)	ND(0.6)	1.6 B	ND(1.0)	0.75 J	2.5 J	ND(1.22)	ND(0.343)
Iron	103.0	ND(7.0)	ND(17.3)	ND(16.8)	ND(2.2)	ND(5.2)	ND(0.91)	ND(29.0)	ND(27.0)
Lead	ND(2.5)	ND(3.0)	3.3	7.5	3.0	4.7	6.2	ND(1.79)	ND(2.18)
Magnesium	**38,000.0**	**36,000.0**	34,300.0	34,400.0	37,000.0	39,200.0	**40,200.0**	**36,100.0**	**40,600.0**
Mercury	ND(0.2)	0.32	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.09 J
Potassium	5,940.0	4,900.0 B	5,000.0	5,240.0	4,490.0 B	5,280.0	5,040.0	5,550.0	5,140.0
Sodium	**287,000.0**	**252,000.0**	**227,000.0**	**270,000.0**	**234,000.0**	**239,000.0**	**252,000.0**	**231,000.0**	**288,000.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate	190.00	220.00	240.00	280.00	300.00	290.00	330.00	340.00	410.00
Chloride	**270.00**	**260.00**	**270.00**	**260.00**	**280.00**	**270.00**	**270.00**	**270.00**	**280.00**
Nitrate	ND(0.50)	0.99	ND(0.50)	0.70	0.60	ND(0.50)	0.60	0.60	ND(0.50)
Sulfate	160.00	290.00	200.00	36.00	280.00	**320.00**	**350.00**	180.00	190.00
Alkalinity	190.00	220.00	240.00	280.00	300.00	290.00	330.00	340.00	410.00
TDS	930.00	780.00	950.00	790.00	1,050.00	1,077.00	1,106.00	1,049.00	1,100.00
Hardness	380.00	360.00	350.00	340.00	360.00	387.00	395.00	360.00	401.00

EN7-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	109.0 J	ND(5.31)	12.5 J	ND(200.0)	154.0	45.0	ND(10.0)	ND(10.0)	264.0
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	ND(10.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	0.41 J	ND(0.327)	0.98 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	95,600.0	90,200.0	127,000.0	116,000.0	125,000.0	127,000.0	124,000.0	122,000.0	123.0
Chromium	ND(0.343)	**98.8**	12.7	ND(10.0)	ND(1.0)	2.0	ND(1.0)	ND(1.0)	2.2
Iron	40.9 J	**352.0**	102.0	120.0	204.0	84.0	92.0	46.0	**513.0**
Lead	2.610 J	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	**40,900.0**	**39,300.0**	**57,900.0**	**50,500.0**	**52,300.0**	**51,300.0**	**51,100.0**	**49,100.0**	**49,100.0**
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.4)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	6,040.0	5,170.0	5,000.0 J	5,200.0	5,510.0	6,500.0	5,700.0	5,620.0	5,960.0
Sodium	**301,000.0**	**266,000.0**	**300,000.0**	**173,000.0**	**228,000.0**	**227,000.0**	**211,000.0**	**212,000.0**	**187,000.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	0.045	0.120	0.160	0.090	0.18	0.22
Bicarbonate	430.00	480.00	ND(2.00)	515.00	650.00	555.00	556.00	514.00	525.00
Chloride	**280.00**	**280.00**	**270.00**	239.00	**280.00**	**290.00**	**280.00**	240.00	240.00
Nitrate	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.10)	ND(0.05)	ND(0.05)	ND(0.05)	0.05	ND(0.05)
Sulfate	160.00	130.00	110.00	104.00	120.00	130.00	140.00	120.00	100.00
Alkalinity	430.00	480.00	510.00	515.00	650.00	555.00	556.00	514.00	525.00
TDS	1100.00	1100.00	1100.00	1090.00	1100.00	1,100.00	1,100.00	1,100.00	1,100.00
Hardness	407.20	387.02	555.41	498.00	527.00	528.00	520.00	507.00	509.00

EN7-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	129.0	NA	190.0	130.0	140.0	790.0	770.0	7,600.0	730.0
Arsenic	16.0	NA	ND(5.0)	4.0 J	6.8	4.6	5.3	8.9	ND(5.0)
Cadmium	0.4 B	NA	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	31,300.0	NA	130,000.0	15,000.0	10,000.0	10,000.0	8,900.0	16,000.0	30,000.0
Chromium	10.0	NA	2.0 J	2.0 J	2.2 J	3.8 J	2.8 J	8.7 J	2.4 J
Iron	**397.0**	NA	**540.0**	200.0	**540.0**	**1,400.0**	550.0	**8,800.0**	**780.0**
Lead	ND(2.0)	NA	ND(10.0)	ND(10.0)	ND(10.0)	4.7 J	8.8 J	**66.8**	8.1 J
Magnesium	5,070.0	NA	47,000.0	2,500.0	1,500.0	1,600.0	1,200.0	4,000.0	2,800.0
Mercury	ND(0.2)	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	9,000.0	NA	6,200.0	4,200.0	3,900.0	3,700.0	2000.0 J	8,800.0	6,900.0
Sodium	15,900.0	NA	**280,000.0**	**30,000.0**	**20,000.0**	9,400.0	6,400.0	5,700.0	**190,000.0**
Leachate Indicators (mg/l)									
Ammonia	0.88	NA	0.29	0.1	0.4	0.070 J	ND(0.150)	0.5	0.1
Bicarbonate	94.00	NA	580.00	54.0	38.0	39.0	34.2	54.8	86.0
Chloride	14.00	NA	**250.00**	33.0	26.0	10.0	4.3	9.5	**320.0**
Nitrate	0.07	NA	0.07 J	0.3	0.046 J	0.017 J	0.4	ND(0.100)	1.4
Sulfate	10.00	NA	85.00	1.8 J	1.2 J	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Alkalinity	94.00	NA	580.00	54.0	38.0	39.0	34.2	54.8	86.0
TDS	180.00	NA	1,100.00	120.0	130.0	83.0	83.0	92.0	660.0
Hardness	99.00	NA	520.00	47.0	32.0	33.0	27.0	56.0	85.0

EN7-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	170.0	180.0	20,000.0	570.0	140.0	1,870.0	936.0	1,580.0	1,700.0
Arsenic	6.1	4.0 J	16.3	3.0 J	5.0	3.0 J	2.0 J	3.0 J	4.0 J
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	16,000.0	16,000.0	120,000.0	120,000.0	20,000.0	9,880.0	12,100.0	30,000.0	14,600.0
Chromium	ND(10.0)	ND(10.0)	42.0	3.0 J	ND(10.0)	2.0 J	ND(10.0)	2.0 J	3.0 J
Iron	200.0	**1,100.0**	**23,000.0**	**3,100.0**	298.0	**2,390.0**	**1,110.0**	**2,160.0**	**2,300.0**
Lead	4.7 J	3.0 J	**83.1**	3.0 J	ND(10.0)	16.0	6.0 J	15.0	11.0
Magnesium	2,900.0	2,600.0	**41,000.0**	**38,000.0**	3,630.0	2,040.0	2,310.0	5,550.0	3,030.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	3,700.0	3,700.0	8,700.0	9,500.0	4,980.0	3,740.0	3,840.0	5,540.0	3,550.0
Sodium	11,000.0	**27,000.0**	**220,000.0**	**230,000.0**	**56,000.0**	**22,500.0**	**4,640.0**	**72,700.0**	13,700.0
Leachate Indicators (mg/l)									
Ammonia	0.31	0.24	0.495	0.566	0.117	0.024 J	0.109	0.169	**0.186**
Bicarbonate	52.40	59.90	604.00	554.0	68.4	35.1	38.6	49.0	46.6
Chloride	9.10	36.00	220.00	200.0	82.0	24.0	5.7	140.0	18.0
Nitrate	0.56	ND(0.10)	0.022 J	ND(0.10)	1.34	1.14	0.547	0.706	ND(0.10)
Sulfate	ND(10.0)	ND(10.00)	89.00	84.0	ND(10.0)	2.0 J	ND(10.0)	ND(10.00)	ND(10.0)
Alkalinity	52.40	59.90	604.00	554.0	68.4	35.1	38.6	49.0	46.6
TDS	85.00	160.00	980.00	1,100.0	200.0	98.0	68.0	380.0	75.0
Hardness	52.00	51.00	460.00	440.0	64.9	33.0	39.7	97.7	49.0

EN7-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	379.0	285.0							
Arsenic	3.0 J	ND(5.0)							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	11,700.0	13,900.0							
Chromium	ND(10.0)	ND(10.0)							
Iron	**480.0**	**335.0**							
Lead	4.0 J	ND(10.0)						0.0	
Magnesium	2,190.0	2,620.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	2,480.0 J	3,640.0							
Sodium	4,470.0	5,800.0							
Leachate Indicators (mg/l)									
Ammonia	0.027 J	0.093							
Bicarbonate	35.80	42.40							
Chloride	5.50	8.30							
Nitrate	0.455	0.686							
Sulfate	ND(10.0)	2.0 J							
Alkalinity	35.80	42.40							
TDS	50.00	92.00							
Hardness	38.30	45.50							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN9-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	4.0	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.6)	ND(0.3)	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

EN9-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

EN9-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.5 J	2.7 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

EN9-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	0.20 J	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	6.80 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

EN9-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	N/A	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

EN9-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	5.0 J							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN9-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	37.8 B	227.0	ND(34.8)	ND(26.8)	ND(21.3)	ND(200.0)	35.8 B	31.2 B	77.8 B
Arsenic	ND(9.0)	ND(4.5)	ND(2.7)	ND(2.0)	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	0.61 B	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	26,600.0	24,900.0	19,800.0	17,400.0 E	23,900.0 E	26,800.0	28,200.0	19,300.0	24,100.0
Chromium	ND(1.0)	3.6 B	ND(1.0)	ND(8.3)	17.0	ND(5.0)	ND(1.0)	1.3 B	ND(0.7)
Iron	ND(27.0)	109.0	ND(22.4)	27.1 B	129.0	ND(50.0)	ND(21.0)	ND(30.9)	ND(15.9)
Lead	ND(3.0)	2.1 B	ND(1.6)	ND(1.1)	ND(1.5)	ND(4.0)	ND(3.0)	ND(0.6)	ND(2.0)
Magnesium	12,500.0	12,000.0	9,600.0	8,180.0 E	10,700.0 E	12,100.0	12,600.0	8,640.0	10,700.0
Mercury	ND(0.2)	ND(0.06)	ND(0.04)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	1,920.0 B	3,290.0 BE	1,260.0 B	1,350.0 B	1,930.0 BE	2,010.0	2,100.0 BE	1,360.0 B	2,000.0 B
Sodium	**23,100.0**	**23,400.0**	16,200.0 E	**20,100.0 E**	**27,500.0 E**	**33,000.0**	**36,700.0**	16,700.0	**33,200.0**
Leachate Indicators (mg/l)									
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	1.430	ND(0.200)	ND(0.200)
Bicarbonate		29.90	29.60	35.20	36.20	32.50	4.00	30.00	58.00
Chloride	727.00	65.80	50.80	112.00	83.80	110.00	108.00	58.00	97.00
Nitrate	1.42	0.96	0.71	0.90	0.91	0.89	0.42	0.89	0.86
Sulfate	186.00	14.20	16.40	14.00	16.60	15.60	24.40	17.00	19.00
Alkalinity	28.00	29.90	29.60	35.20	36.20	32.50	4.20	30.00	58.00
TDS	203.00	95.00	140.00	238.00	256.00	225.00	209.00	140.00	210.00
Hardness	39.00	111.34	88.80	77.1 E	103.00	116.00	63.00	84.00	100.00

EN9-M (continued)

Metals (µg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	83.9 B	ND(45.7)	25.4 B	ND(10.1)	ND(78.9)	13.2 J	43.1 J	ND(180.0)	20.4 J
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	0.46 B	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	30,400.0	20,900.0	19,800.0	15,500.0	14,600.0	25,300.0	21,500.0	20,400.0	22,500.0
Chromium	2.1 B	ND(5.0)	ND(0.6)	2.6 B	ND(1.0)	2.2 J	12.0	ND(1.22)	ND(0.343)
Iron	135.0	ND(7.0)	ND(17.3)	29.0 B	34.7 B	36.9 J	16.9 J	51.3 J	37.1 J
Lead	4.7	ND(3.0)	3.5	9.8	ND(3.0)	6.8	5.1	ND(1.79)	ND(2.18)
Magnesium	13,800.0	9,420.0	8,820.0	7,040.0	7,100.0	11,700.0	9,960.0	9,220.0	10,500.0
Mercury	ND(0.2)	0.27	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.07 J
Potassium	2,450.0	1,700.0 B	1,500.0 B	1,350.0 B	1,330.0 B	2,100.0 J	1,800.0 J	1,800.0 J	2,140 J
Sodium	**44,500.0**	**30,100.0**	**26,900.0**	19,400.0	15,200.0	**33,400.0**	**25,800.0**	**27,700.0**	**39,200.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	0.500	ND(0.200)	ND(0.200)
Bicarbonate	30.00	45.00	36.00	32.00	34.00	24.00	31.00	30.00	33.00
Chloride	120.00	80.00	94.00	47.00	39.00	110.00	79.00	81.00	100.00
Nitrate	0.93	1.00	0.90	1.20	0.50	1.10	0.80	0.78	0.86
Sulfate	14.00	17.00	16.00	17.00	19.00	16.00	19.00	19.00	180.00
Alkalinity	30.00	45.00	36.00	32.00	34.00	24.00	31.00	30.00	33.00
TDS	280.00	190.00	240.00	150.00	165.00	360.00	273.00	74.00	310.00
Hardness	130.00	91.00	86.00	68.00	66.00	111.00	95.00	89.00	99.00

EN9-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	94.1 J	ND(5.31)	ND(7.6)	ND(200.0)	109.0	ND(10.0)	ND(10.0)	ND(10.0)	49.8
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	ND(10.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	ND(0.327)	ND(0.327)	1.2 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	23,400.0	21,000.0	24,600.0	29,700.0	32,100.0	27,600.0	27,300.0	26,600.0	31,100.0
Chromium	0.86 J	9.89 J	11.6	ND(10.0)	ND(1.0)	2.0	ND(1.0)	ND(1.0)	1.5
Iron	ND(27.0)	ND(27.0)	ND(30.4)	ND(100.0)	165.0	20.0	2.0	3.0	112.0
Lead	ND(2.18)	ND(2.18)	ND(1.6)	ND(3.0)	ND(1.0)	ND(1.0)	2.0	ND(2.0)	ND(2.0)
Magnesium	10,300.0	10,200.0	12,800.0	14,100.0	14,300.0	12,000.0	12,000.0	11,300.0	13,600.0
Mercury	ND(0.03)	ND(0.03)	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	2,030.0 J	1,480.0 J	956.0 J	2,100.0 J	2,790.0	2,700.0	2,400.0	2,500.0	2,650.0
Sodium	**31,400.0**	**28,600.0**	**29,700.0**	**31,600.0**	**52,700.0**	**57,300.0**	**51,300.0**	**55,700.0**	**55,300.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	0.490	ND(0.200)	ND(0.040)	ND(0.020)	0.040	0.020	0.06	0.07
Bicarbonate	36.00	38.00	ND(2.00)	35.40	48.00	35.80	36.90	33.60	34.20
Chloride	98.00	68.00	66.00	112.00	130.00	160.00	140.00	130.00	140.00
Nitrate	0.78	ND(0.50)	ND(0.50)	0.62	0.71	0.86	0.76	0.71	0.78
Sulfate	19.00	19.00	21.00	16.00	15.00	16.00	18.00	17.00	16.00
Alkalinity	36.00	38.00	36.00	35.40	48.00	35.80	36.90	33.60	34.20
TDS	260.00	230.00	240.00	302.00	300.00	330.00	380.00	300.00	410.00
Hardness	100.90	94.39	114.03	132.00	139.00	118.00	118.00	113.00	134.00

EN9-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Aluminum	22.0	24.0	50.0 J	30.0 J	ND(100.0)	50.0 J	73.0 J	ND(100.0)	30.0 J
Arsenic	ND(4.0)	ND(3.0)	ND(5.0)	ND(5.0)	2.6 J	ND(5.0)	2.9 J	3.3 J	ND(5.0)
Cadmium	0.3 B	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	37,100.0	29,600.0	32,000.0	2,300.0	27,000.0	31,000.0	27,000.0	26,000.0	29,000.0
Chromium	2.0	0.8 B	ND(10.0)	ND(10.0)	3.2 J	3.5 J	3.1 J	ND(10.0)	ND(10.0)
Iron	68.0	50.0	120.0	60.0	270.0	100.0	120.0	88.0	75.0
Lead	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	2.6 J	ND(10.0)	ND(10.0)
Magnesium	16,400.0	13,400.0	15,000.0	11,000.0	13,000.0	14,000.0	14,000.0	13,000.0	15,000.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	2,400.0	2,300.0	2,800.0	2,300.0 J	2,200 J	2,700.0	2,700.0	2,600.0	2,700.0
Sodium	**63,100.0**	**41,700.0**	**83,000.0**	**67,000.0**	**49,000.0**	**59,000.0**	68,000.0	**56,000.0**	**68,000.0**
Leachate Indicators (mg/l)									
Ammonia	ND(0.02)	ND(0.02)	0.10	0.1	ND(0.075)	ND(0.075)	0.029 J	0.1	ND(0.075)
Bicarbonate	36.00	38.00	35.00	35.0	35.0	36.0	37.8	38.1	34.8
Chloride	160.00	120.00	170.00	120.0	120.0	140.0	160.0	130.0	180.0
Nitrate	0.79	0.39	0.85	0.7	0.6	0.8	0.9	0.6	1.0
Sulfate	16.00	18.00	14.00	18.0	18.0	16.0	18.0	17.0	15.0
Alkalinity	36.00	38.00	35.00	35.0	35.0	36.0	37.8	38.1	34.8
TDS	380.00	280.00	380.00	300.0	300.0	340.0	370.0	300.0	390.0
Hardness	160.00	129.00	140.00	100.0	120.0	140.0	120.0	120.0	140.0

EN9-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	39.0 J	60.0 J	27.0 J	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	ND(100.0)	89.0 J
Arsenic	2.9 J	ND(5.0)	ND(5.00)	2.0 J	3.0 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	27,000.0	21,000.0	30,000.0	30,000.0	26,200.0	28,800.0	24,600.0	24,400.0	22,200.0
Chromium	ND(10.0)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)
Iron	78.0	100.0	36.0 J	49.0 J	66.0	36.0 J	35.0 J	15.0 J	190.0
Lead	ND(10.0)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	3.0 J
Magnesium	14,000.0	10,000.0	16,000.0	15,000.0	13,600.0	15,100.0	12,800.0	12,600.0	11,800.0
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)
Potassium	2,800.0	2,400.0 J	2,600.0	2,700.0	2,500.0	2,310.0 J	2,320.0 J	2,140 J	2,520.0
Sodium	**74,000.0**	**49,000.0**	**80,000.0**	**92,000.0**	**78,100.0**	**72,900.0**	**69,000.0**	**58,900.0**	**35,000.0**
Leachate Indicators (mg/l)									
Ammonia	0.038 J	0.08	ND(0.075)	0.023 J	ND(0.075)	0.053 J	0.041 J	0.173	0.120
Bicarbonate	37.10	41.00	33.90	32.8	34.4	33.6	38.1	34.3	41.1
Chloride	140.00	94.00	180.00	210.0	180.0	180.0	140.0	120.0	80.0
Nitrate	0.74	0.29	0.82	1.0	0.8	0.8	0.6	0.5	ND(0.10)
Sulfate	19.00	20.00	16.00	13.0	16.0	17.0	17.0	20.0	25.0
Alkalinity	37.10	41.00	33.90	32.8	34.4	33.6	38.1	34.3	41.1
TDS	330.00	260.00	370.00	420.0	380.0	440.0	340.0	340.0	220.0
Hardness	130.00	95.00	140.00	140.0	122.0	134.0	114.0	113.0	104.0

EN9-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	ND(100.0)	ND(100.0)							
Arsenic	2.0 J	ND(5.0)							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	24,600.0	22,400.0							
Chromium	2.0 J	2.0 J							
Iron	84.0	**572.0**							
Lead	3.0 J	ND(10.0)							
Magnesium	13,100.0	12,000.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	2,200.0 J	2,500.0							
Sodium	**59,400.0**	**43,700.0**							
Leachate Indicators (mg/l)									
Ammonia	0.119	0.672							
Bicarbonate	36.30	52.60							
Chloride	130.00	100.00							
Nitrate	0.47	ND(0.10)							
Sulfate	21.00	17.00							
Alkalinity	36.30	52.60							
TDS	320.00	260.00							
Hardness	115.00	105.00							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

EN10-M
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	4.0	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	3.0	4.0	4.0 J	3.0 J	ND(1.4)	1.1	ND(0.2)	2.0
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	1.0 J	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	4.0	5.0	5.0 J	5.0	3.0	1.9	4.1	**5.3**
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	1.0 J	ND(0.6)	ND(0.3)	ND(0.4)	0.4
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(5.0)	0.5 J	ND(0.7)	ND(0.6)	ND(0.3)	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(5.0)	ND(0.3)	ND(0.3)	ND(0.3)

EN10-M (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	0.7	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	1.9	ND(0.2)	ND(1.0)	1.5 J	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	0.8	ND(0.3)	ND(0.8)	1.5 J	ND(1.5)	ND(0.30)	1.0 J	0.6 J
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	4.7	ND(0.3)	4.8	3.2 J	2.6 J	2.6 J	ND(0.34)	2.70 J	1.30 J
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	0.6	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

EN10-M (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.7 J	2.6 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	0.14 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.65)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

EN10-M (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Chloromethane	ND(5.00)	ND(2.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(4.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	ND(10.00)	7.00 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

EN10-M (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(4.00)	ND(4.00)	ND(4.00)	ND(4.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(4.00)	ND(4.00)	ND(4.00)	ND(4.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(7.00)	ND(7.00)	ND(7.00)	ND(7.00)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
Toluene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(7.00)	ND(7.00)	ND(7.00)	ND(7.00)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(20.00)	ND(20.00)	ND(20.00)	2.70 J
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.0)	ND(200.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

EN10-M (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit

*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

EN10-M
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY

Metals (µg/l)	11/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Aluminum	232.0	163.0 B	ND(34.8)	ND(26.8)	ND(21.3)	ND(200.0)	30.1 B	ND(25.8)	104.0 B
Arsenic	ND(8.0)	ND(4.5)	ND(2.7)	ND(2.0)	ND(1.5)	ND(4.0)	ND(6.0)	ND(3.0)	ND(3.8)
Cadmium	ND(1.0)	ND(0.5)	ND(0.5)	ND(5.2)	ND(4.7)	ND(5.0)	ND(1.0)	ND(0.5)	ND(0.4)
Calcium	29,800.0	27,100.0	25,100.0	21,100.0 E	23,400.0	20,500.0	22,400.0	21,800.0	20,600.0
Chromium	1.1 B	4.0 B	2.8 B	ND(8.3)	12.8	6.0	24.2	6.0 B	2.6 B
Iron	310.0	249.0	ND(22.4)	25.0 B	11.8 B	114.0	**319.0**	ND(30.9)	ND(15.9)
Lead	ND(2.0)	ND(1.6)	ND(1.6)	ND(1.1)	ND(1.5)	ND(4.0)	ND(3.0)	ND(0.6)	ND(2.0)
Magnesium	9,620.0	10,400.0	9,640.0	8,720.0 E	8,670.0 E	7,840.0	8,490.0	8,090.0	7,650.0
Mercury	ND(0.2)	ND(0.06)	0.04 B	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)
Potassium	1,570.0 B	2,440.0 BE	1,100.0 B	1,440.0 B	1,640.0 BE	1,300.0	1,190.0 BE	1,100.0 B	1,330.0 B
Sodium	14,400.0	14,700.0	13,800.0 E	17,400.0 E	15,400.0 E	12,800.0	14,500.0	10,500.0	13,500.0
Leachate Indicators (mg/l)									
Ammonia	1.120	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	1.430	ND(0.200)	ND(0.200)
Bicarbonate		19.60	18.30	19.80	21.30	20.50	16.00	22.00	35.00
Chloride	21.30	19.60	21.70	23.50	22.20	23.00	23.00	21.00	23.00
Nitrate	**10.10**	8.40	7.50	7.80	8.20	8.44	3.50	8.10	8.30
Sulfate	44.00	55.50	19.90	40.00	44.30	39.20	56.10	40.00	46.00
Alkalinity	27.00	19.60	18.30	19.80	21.30	20.50	17.00	22.00	35.00
TDS	167.00	184.00	143.00	138.00	28.00	168.00	133.00	140.00	130.00
Hardness	110.00	110.28	102.00	88.6 E	94.10	82.70	25.50	88.00	83.00

EN10-M (continued)

Metals (µg/l)	4/01	9/07	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Aluminum	64.3 B	ND(45.7)	ND(7.3)	ND(10.1)	ND(78.9)	9.0 J	46.8	305.0	1,910.0
Arsenic	ND(2.5)	ND(5.0)	ND(2.8)	ND(3.6)	ND(11.9)	ND(2.2)	ND(5.5)	ND(4.84)	ND(3.32)
Cadmium	ND(0.4)	ND(3.0)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.12)	ND(0.57)	ND(0.994)	ND(0.327)
Calcium	22,200.0	21,500.0	19,900.0	20,100.0	21,000.0	20,900.0	20,200.0	14,000.0	16,100.0
Chromium	2.6 B	ND(5.0)	3.8 B	6.8 B	3.1 B	36.4	9.6 J	1.96 J	7.91 J
Iron	109.0	16.4 B	ND(17.3)	24.4 B	38.8 B	118.0	30.1 J	**481.0**	**1,640.0**
Lead	ND(2.5)	ND(3.0)	3.8	9.8	ND(3.0)	4.2	4.6 J	11.3	**33.8**
Magnesium	8,460.0	8,120.0	7,420.0	7,560.0	8,450.0	7,230.0	7,560.0	4,530.0 J	6,080.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.03)	0.07 J
Potassium	1,280.0 B	1,110.0 B	1,120.0 B	1,260.0 B	1,390.0 B	1,190.0 J	1,230.0 J	3,600.0	3,300.0 J
Sodium	14,000.0	13,500.0	13,500.0	14,400.0	15,400.0	11,700.0	12,600.0	7,340.0	11,100.0
Leachate Indicators (mg/l)									
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	0.400	ND(0.200)	ND(0.200)
Bicarbonate	19.00	28.00	29.00	18.00	20.00	20.00	16.00	23.00	23.00
Chloride	23.00	25.00	34.00	26.00	26.00	27.00	26.00	10.00	20.00
Nitrate	7.00	8.20	8.10	9.80	7.50	8.20	8.20	2.50	6.33
Sulfate	38.00	40.00	43.00	36.00	190.00	75.00	42.00	15.00	32.00
Alkalinity	19.00	28.00	29.00	18.00	20.00	20.00	16.00	23.00	23.00
TDS	90.00	130.00	160.00	140.00	196.00	206.00	205.00	34.00	190.00
Hardness	90.00	87.00	80.00	81.00	87.00	84.00	82.00	54.00	65.00

EN10-M (continued)

Metals (µg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Aluminum	1,580.0	10,900.0	321.0	380.0	273.0	12.0	107.0	47.5	617.0
Arsenic	ND(3.32)	ND(3.32)	ND(4.1)	4.5 J	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Cadmium	ND(0.327)	ND(0.327)	ND(0.52)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Calcium	7,450.0	5,340.0	1,460.0 J	1,200.0 J	1,350.0	799.0	2,050.0	1,230.0	1,390.0
Chromium	8,460.0 J	34.6	8.7 J	1.9 J	**6.0**	ND(1.0)	ND(1.0)	9.4	7.8
Iron	**1,170.0**	**40,800.0**	**437.0**	**400.0**	**1,500.0**	24.0	206.0	279.0	**1,610.0**
Lead	**69.8**	**285.0**	16.2	15.0	13.0	ND(1.0)	3.0	ND(2.0)	15.4
Magnesium	2,660.0 J	2,150.0 J	582.0 J	400.0 J	426.0	260.0	550.0	418.0	455.0
Mercury	ND(0.03)	0.11 J	ND(0.18)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	2,880.0 J	2,320.0 J	1,250.0 J	840.0 J	3,570.0	700.0	2,400.0	992.0	2,710.0
Sodium	5,020.0	3,480.0 J	ND(215.0)	1,200.0 J	1,580.0	1,200.0	800.0	1,380.0	769.0
Leachate Indicators (mg/l)									
Ammonia	0.450	ND(0.200)	0.450	0.070	0.030	0.040	0.270	0.15	0.31
Bicarbonate	21.00	12.00	ND(2.00)	3.10	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)
Chloride	9.20	4.57	2.86	2.00	ND(3.00)	4.40	ND(3.00)	ND(3.00)	ND(3.00)
Nitrate	0.83	ND(0.50)	ND(0.50)	0.27	ND(0.50)	0.48	0.10	0.57	ND(0.05)
Sulfate	14.00	4.02	ND(1.00)	1.80	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)	ND(3.00)
Alkalinity	21.00	12.00	9.44	3.10	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)	ND(20.00)
TDS	90.00	38.00	21.00	14.00	21.00	ND(10.00)	29.00	16.00	27.00
Hardness	32.00	22.18	6.04	4.70	5.13	3.07	7.38	4.80	5.37

EN10-M (continued)

Metals (µg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	5/15
Aluminum	467.0	5,800.0	1,100.0	430.0	340.0	420.0	180.0	570.0	240.0
Arsenic	ND(4.0)	4.0	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	3.0 J	2.2 J	ND(5.0)
Cadmium	0.2 B	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Calcium	1,600.0	3,030.0	2,600.0	2,800.0	3,700.0	4,700.0	11,000.0	3,000.0	1,300.0
Chromium	4.0	7.0	10.0	4.0 J	5.9 J	2.3 J	ND(10.0)	5.2 J	ND(10.0)
Iron	**2,080.0**	**6,200.0**	**1,100.0**	290.0	220.0	**370.0**	140.0	**550.0**	200.0
Lead	8.0	8.0	19.0	20.0	18.9	8.5 J	13.2	19.5	12.6
Magnesium	510.0	1,830.0	960.0	950.0	1,000.0	1,500.0	4,000.0	1,100.0	450.0
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Potassium	2,900.0	2,300.0	2,000.0 J	1,900.0 J	2,100 J	2,600.0	1,900.0 J	1,500.0 J	950.0 J
Sodium	1,200.0	2,600.0	2,600.0	2,900.0	3,700.0	4,500.0	12,000.0	2,600.0	1,300.0 J
Leachate Indicators (mg/l)									
Ammonia	0.26	ND(0.02)	0.14	0.058 J	0.04 J	0.071 J	0.047 J	0.3	0.070 J
Bicarbonate	ND(20.00)	ND(20.00)	8.90	8.7	11.0	12.0	15.3	8.2	5.2
Chloride	ND(3.00)	2.80	4.20	4.0	4.0	6.1	19.0	3.1	1.5
Nitrate	0.09	0.59	0.26	0.08 J	0.2	1.0	3.9	1.1	0.5
Sulfate	ND(3.00)	2.8 B	1.50 J	2.8 J	3.3 J	4.5 J	21.0	ND(10.0)	ND(10.0)
Alkalinity	ND(20.00)	ND(20.00)	8.90	8.7	11.0	12.0	15.3	8.2	5.2
TDS	20.00	19.00	11.00	6.0 J	44.0	25.0	130.0	50.0	31.0
Hardness	6.10	15.10	10.00	11.0	14.0	18.0	44.0	12.0	5.0

EN10-M (continued)

Metals (µg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Aluminum	430.0	250.0	160.0	1,300.0	599.0	14,800.0	8,820.0	10,600.0	14,700.0
Arsenic	ND(5.0)	2.4 J	ND(5.00)	2.0 J	ND(5.0)	14.0	7.0	7.0	**11.0**
Cadmium	ND(5.0)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.0)	1.00 J	ND(5.0)	1.0 J	**ND(5.0)**
Calcium	1,800.0	1,900.0	2,200.0	3,200.0	3,340.0	9,710.0	6,060.0	6,560.0	**6,910.0**
Chromium	7.0 J	ND(10.0)	4.0 J	20.0	2.0 J	19.0	10.0 J	18.0	**19.0**
Iron	**410.0**	240.0	260.0	**1,500.0**	**653.0**	**18,200.0**	**8,470.0**	**9,520.0**	**1,650.0**
Lead	**35.3**	20.3	23.0	**75.0**	**44.0**	**1,990.0**	**508.0**	**769.0**	**732.0**
Magnesium	690.0	580.0	700.0	1,200.0	1,070.0	3,140.0	2,780.0	3,200.0	**4,160.0**
Mercury	ND(0.2)	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	**0.1 J**
Potassium	1,500.0 J	1,600.0 J	1,800.0 J	2,200.0 J	2,040.0 J	5,930.0	5,740.0	3,150.0	**4,070.0**
Sodium	1,600.0 J	2,000.0	2,000.0	3,000.0	3,390.0	5,380.0	5,000.0	4,910.0	**5,490.0**
Leachate Indicators (mg/l)									
Ammonia	0.21	0.047 J	0.167	ND(0.075)	0.027J	0.105	0.132 J	0.134	**0.193**
Bicarbonate	7.60	8.10	10.20	10.6	10.6	12.9	18.5	15.2	26.1
Chloride	2.50	2.50	2.50	3.4	4.2	7.6	7.8	6.6	7.3
Nitrate	0.26	0.11	0.091 J	0.649	0.277	0.830	0.479	0.660	0.634
Sulfate	ND(10.0)	ND(10.00)	1.80 J	2.40 J	2.3J	1.90 J	4.70 J	6.50 J	1.50 J
Alkalinity	7.60	8.10	10.20	10.6	10.6	12.9	18.5	15.2	26.1
TDS	23.00	38.00	ND(10.00)	29.0	41.0	37.0	120.0	110.0	24.0
Hardness	7.50	7.10	8.40	13.0	12.8	37.2	26.6	29.6	34.4

EN10-M (continued)

Metals (µg/l)	6/20	10/20							
Aluminum	1,500.0	3,730.0							
Arsenic	2.0 J	4.0 J							
Cadmium	ND(5.0)	ND(5.0)							
Calcium	6,580.0	6,750.0							
Chromium	ND(10.0)	9.0 J							
Iron	**3,420.0**	**6,460.0**							
Lead	**205.0**	**185.0**							
Magnesium	1,990.0	2,430.0							
Mercury	ND(0.20)	ND(0.20)							
Potassium	4,040.0	3,270.0							
Sodium	5,300.0	5,420.0							
Leachate Indicators (mg/l)									
Ammonia	0.598	1.22							
Bicarbonate	24.70	30.30							
Chloride	7.20	7.90							
Nitrate	0.213	0.368							
Sulfate	3.70 J	2.60 J							
Alkalinity	24.70	30.30							
TDS	49.00	31.00							
Hardness	24.60	26.90							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

Bold indicates value above NYSDEC Class GA Standard

B: The analyte was found in an associated blank, as well as in the sample

APPENDIX C-1

SURFACE WATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Appendix C-1
East Northport Landfill
Semi-Annual Groundwater Monitoring
December 2023 Sampling Event
Surface Water Sample Results
Volatile Organic Compounds

Units in ug/l			Sample ID Sample Date	SW-1 12/12/23	SW-2 12/12/23	SW-3 12/12/23	SW-4 12/12/23	SW-5 12/12/23	SW-6 12/12/23	SW-7 12/12/23
VOLATILE COMPOUNDS	CAS Number	Class C Surface Water Standard								
1,1,1-Trichloroethane	**71-55-6**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	**79-34-5**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	**79-00-5**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	**75-34-3**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	**75-35-4**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	**95-50-1**	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	**107-06-2**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	**78-87-5**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	**541-73-1**	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	**106-46-7**	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloroethyl vinyl ether	**110-75-8**	--		20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Benzene	**71-43-2**	210		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	**75-27-4**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	**75-25-2**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	**74-83-9**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	**56-23-5**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	**108-90-7**	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	**75-00-3**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	**67-66-3**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	**74-87-3**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	**156-59-2**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	**10061-01-5**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	**124-48-1**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	**75-71-8**	--		--	--	--	--	--	--	--
Ethylbenzene	**100-41-4**	17		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	**75-09-2**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	**127-18-4**	--		0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Toluene	**108-88-3**	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	**156-60-5**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	**10061-02-6**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	**79-01-6**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	**75-69-4**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	**75-01-4**	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	**1330-20-7**	65		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Total Volatile Organic Compounds		--		0	0	0	0	0	0	0

Footnotes/Qualifiers:

ug/l	Micrograms per liter
U	Compound was analyzed for but not detected
UJ	An estimated limit
--	No standard

D&B ENGINEERS AND ARCHITECTS

APPENDIX C-2

SURFACE WATER SAMPLE RESULTS
LEACHATE INDICATORS

Appendix C-2
East Northport Landfill
Semi-Annual Groundwater Monitoring
December 2023 Sampling Event
Surface Water Sample Results
Metals and Leachate Indicator Parameters

Units in mg/l			Sample ID Sample Date	SW-1 12/12/23	SW-2 12/12/23	SW-3 12/12/23	SW-4 12/12/23	SW-5 12/12/23	SW-6 12/12/23	SW-7 12/12/23
LEACHATE INDICATORS	CAS Number	Class C Surface Water Standard								
Alkalinity, Carbonate	ALK	--		48	96	92	44	48	32	92
Ammonia, as N	7664-41-7	2.2		0.162	0.124	0.16	0.125	0.0755	0.147	0.0554
Chloride	16887-00-6	--		58.9 D	679 D	1810 D	102 D	51.6 D	22.3	11200 D
Hardness	HARD	--		76.5	326	668	91.8	74.1	28.4	3670
Nitrate	14797-55-8	--		2.37	1.45	0.05 U	2.52	2.16	0.69	5 U
Sulfate	14808-79-8	--		18.1	121 D	273 D	22.8	18.1	4.69	1750 D
Total Dissolved Solids	E-10173	--		212	1510	4200	650	250	130	24100

Footnotes/Qualifiers:

mg/l	Milligrams per liter
U	Compound was analyzed for but not detected
UB	Non-detect based on blank results
--	No standard or not analyzed
D	Analyzed at a dilution

APPENDIX D

HISTORICAL SURFACE WATER RESULTS

Table 3A

Summary of Analytical Results-Surface Water
East Northport Landfill, East Northport, NY
Sampled October 22, 2020

Leachate Indicators

Reported in Milligrams per Liter

Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-DUP	NYSDEC Class GA Standard
Ammonia	0.149	0.072 J	0.062 J	0.121	0.087	0.085	0.211	0.035 J	2.0
Bicarbonate	42.80	82.80	46.40	38.20	52.40	22.80	101.00	45.60	NS/GV
Chloride	62.00	140.00	74.00	55.00	60.00	47.00	**8,000.00**	68.00	250.0
Nitrate	2.94	2.04	4.28	2.82	2.28	0.179	0.804	4.37	10.0
Sulfate	20.00	46.00	32.00	18.00	21.00	13.00	**940.00**	32.00	250.0
Alkalinity	42.80	82.80	46.40	38.20	52.40	22.80	101.00	45.60	NS/GV
TDS	180.00	390.00	260.00	170.00	200.00	120.00	14,000.00	260.00	NS/GV
Hardness	76.30	139.00	110.00	69.30	91.00	50.50	2,050.00	112.00	NS/GV

Note:

ND( ): Compound not detected at the reporting limit

NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

NS/GV: No NYSDEC Standard or Guidance Value Established

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

SW-1
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	**6.0**	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	1.2	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	4.0	3.0 J	3.0	1.8	3.7	3.3	2.9
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-1 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	3.9	3.7	3.1	3.2 J	2.0 J	1.7 J	ND(0.30)	3.40 J	2.10 J
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-1 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.2 J	2.6 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	0.17 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	2.10 J	ND(0.74)	1.70 J	2.60	ND(5.00)	ND(5.00)	ND(5.00)	1.9 J	2.40 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-1 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	1.40 J	1.30 J	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	1.90 J	1.50	1.8	2.30	1.70	1.80	1.60	1.30 J	1.40 J
Toluene	0.82 J	ND(2.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	3.50 J	7.80 J	4.20 J	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

SW-1 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	1.30 J	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	1.30 J	1.30 J	1.20 J	1.20 J	0.72J	1.00 J	0.93 J	1.20	1.10
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-1 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.99 J	1.10 J							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-1
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	ND(1.000)	ND(0.050)	0.140	ND(0.200)	0.130	ND(0.200)	ND(0.200)	ND(0.200)	0.280
Bicarbonate		25.20	28.20	24.20	29.80	27.50	27.50	32.00	38.00
Chloride	49.60	38.20	35.10	30.30	30.00	38.50	33.70	40.00	40.00
Nitrate	1.70	1.99	1.48	1.70	1.50	1.92	0.789	1.60	1.50
Sulfate	21.80	16.00	18.50	17.00	19.90	20.30	27.10	20.00	21.00
Alkalinity	25.00	25.20	28.20	24.20	29.80	27.50	34.00	32.00	38.00
TDS	145.00	588.00	110.00	172.00	94.00	137.00	111.00	110.00	120.00
Hardness	23.00	63.07	61.60	64.8 E	56.50	55.90	51.00	57.00	60.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.600	0.700	ND(0.200)	ND(0.200)
Bicarbonate	24.00	29.00	22.00	28.00	26.00	36.00	26.00	29.00	29.00
Chloride	47.00	44.00	56.00	45.00	58.00	53.00	55.00	52.00	65.00
Nitrate	ND(0.50)	1.60	2.00	1.20	3.30	2.50	2.20	2.44	2.31
Sulfate	21.00	22.00	21.00	20.00	22.00	24.00	4.30	23.00	23.00
Alkalinity	24.00	29.00	22.00	28.00	26.00	36.00	26.00	29.00	29.00
TDS	140.00	120.00	200.00	140.00	175.00	174.00	198.00	157.00	180.00
Hardness	75.00	37.00	57.00	60.00	61.00	67.00	70.00	61.00	81.00

SW-1 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	0.230	ND(0.200)	0.200	0.074	0.160	0.080	0.090	0.11	0.11
Bicarbonate	34.00	33.00	34.00	32.70	38.00	33.70	67.40	26.49	35.50
Chloride	53.00	51.00	49.00	49.20	48.00	55.00	47.00	66.00	61.00
Nitrate	2.36	2.12	2.73	2.30	3.00	2.80	4.30	3.80	2.60
Sulfate	22.00	23.00	20.00	19.20	20.00	20.00	17.00	21.00	21.00
Alkalinity	34.00	33.00	34.00	32.70	38.00	33.70	67.40	26.49	35.50
TDS	150.00	160.00	190.00	195.00	160.00	170.00	200.00	200.00	210.00
Hardness	67.20	56.20	75.80	70.90	74.60	65.80	58.90	76.50	73.30

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	0.24	0.063	0.19	0.214	0.167	0.113	0.081	0.190	0.054 J
Bicarbonate	36.00	38.00	27.00	37.000	35.00	38.00	35.00	35.30	34.80
Chloride	58.00	56.00	50.00	52.000	53.00	56.00	70.00	72.00	72.00
Nitrate	3.00	3.00	2.50	2.600	3.47	3.03	3.46	2.69	3.83
Sulfate	21.00	20.00	21.00	23.000	23.00	23.00	25.00	23.00	25.00
Alkalinity	36.00	38.00	27.00	37.000	35.00	38.00	35.00	35.30	34.80
TDS	190.00	190.00	170.00	170.000	170.00	180.00	220.00	210.00	200.00
Hardness	84.40	76.90	77.00	81.000	84.00	74.00	83.00	77.00	75.00

SW-1 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.077	0.109	0.055 J	0.04 J	0.192	0.142	0.116	0.087	0.08
Bicarbonate	37.700	35.900	39.40	37.10	47.60	42.20	43.50	39.70	40.40
Chloride	75.000	66.000	72.00	67.00	78.00	74.00	71.00	61.00	61.00
Nitrate	3.840	3.210	3.41	2.92	0.87	2.39	2.91	3.12	2.99
Sulfate	26.000	25.000	25.00	27.00	26.00	21.00	22.00	24.00	20.00
Alkalinity	37.700	35.900	39.40	37.10	47.60	42.20	43.50	39.70	40.40
TDS	220.000	240.000	200.00	170.00	190.00	210.00	230.00	210.00	150.00
Hardness	86.000	83.000	86.00	94.00	79.30	82.50	78.00	78.70	73.60

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.175	0.149							
Bicarbonate	41.50	42.80							
Chloride	56.00	62.00							
Nitrate	2.53	2.94							
Sulfate	18.00	20.00							
Alkalinity	41.50	42.80							
TDS	200.00	180.00							
Hardness	86.10	76.30							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

Bold indicates value above NYSDEC Class GA Standard

E: Reported value is estimated because of the presence of interference

SW-2
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	**6.0**	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	0.8 J	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	3.0	3.0 J	4.0 J	3.2	1.8	4.2	3.0
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-2 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	4.8	**6.9**	4.2	4.7 J	2.6 J	1.7 J	ND(0.30)	4.5 J	1.8 J
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	0.7 J	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-2 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.6 J	2.7 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	2.0 J	0.9 J	2.3 J	130.0 J	ND(5.00)	ND(5.00)	1.1 J	1.7 J	0.88 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-2 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	1.60 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	0.50 J	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	0.34 J	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	1.5	1.80	1.90	2.00	1.30 J	1.60	1.60
Toluene	**6.80**	ND(2.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	4.10 J	13.00	ND(10.0)	ND(10.00)	ND(10.00)	1.80 J
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	0.39 J	ND(1.00)	0.56 J

SW-2 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	1.40 J	1.30 J	1.20 J	1.50	1.50	0.85 J	0.66 J	0.66 J	0.58 J
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	0.60 J	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	0.28 J	0.31 J
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-2 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.63 J	0.71 J							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	0.34 J	0.27 J							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-2
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	1.400	ND(0.050)	0.130	ND(0.200)	0.150	ND(0.200)	ND(0.200)	0.230	ND(0.200)
Bicarbonate		41.10	44.50	41.80	49.00	44.00	44.00	23.00	50.00
Chloride	47.90	48.50	15.10	41.10	42.40	62.60	40.80	44.00	46.00
Nitrate	1.26	1.84	1.12	1.40	1.20	1.67	0.279	1.20	1.20
Sulfate	30.00	25.00	25.50	31.50	30.80	27.80	28.00	22.00	30.00
Alkalinity	37.00	41.10	44.50	41.80	49.00	44.00	43.00	23.00	50.00
TDS	174.00	145.00	128.00	140.00	156.00	207.00	129.00	130.00	150.00
Hardness	30.00	92.02	92.80	82.6 E	99.00	93.70	64.00	70.00	89.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	0.300	ND(0.200)	ND(0.200)
Bicarbonate	40.00	49.00	52.00	45.00	44.00	54.00	47.00	52.00	ND(2.00)
Chloride	71.00	56.00	69.00	50.00	80.00	63.00	68.00	61.00	83.00
Nitrate	1.10	1.40	1.80	1.50	1.10	1.70	0.90	1.40	1.47
Sulfate	38.00	37.00	39.00	34.00	30.00	9.80	38.00	39.00	40.00
Alkalinity	40.00	49.00	52.00	45.00	44.00	54.00	47.00	52.00	ND(2.00)
TDS	170.00	180.00	250.00	160.00	246.00	231.00	253.00	168.00	250.00
Hardness	110.00	61.00	110.00	110.00	83.00	107.00	102.00	94.00	121.00

SW-2 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	ND(0.200)	0.221	0.200	0.049	0.110	0.060	0.110	0.09	0.91
Bicarbonate	64.00	62.00	61.00	62.00	76.00	66.20	66.10	60.72	42.80
Chloride	74.00	71.00	69.00	67.70	69.00	88.00	73.00	89.00	110.00
Nitrate	2.09	0.771	1.73	0.64	1.90	1.40	1.20	1.20	0.74
Sulfate	44.00	37.00	37.00	31.80	38.00	36.00	40.00	38.00	28.00
Alkalinity	64.00	62.00	61.00	62.00	76.00	66.20	66.10	60.72	42.80
TDS	240.00	240.00	190.00	251.00	250.00	280.00	250.00	270.00	310.00
Hardness	116.30	97.90	105.20	114.00	126.00	123.00	124.00	125.00	77.40

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	1.80	0.120	0.16	0.208	0.074 J	0.071 J	0.092	0.123	0.047 J
Bicarbonate	62.00	70.00	75.00	82.000	73.00	79.00	74.00	82.70	87.50
Chloride	82.00	69.00	78.00	68.000	90.00	90.00	98.00	93.00	210.00
Nitrate	0.17	1.40	0.96	1.300	1.84	2.06	1.95	1.59	2.30
Sulfate	48.00	33.00	38.00	42.000	47.00	49.00	46.00	43.00	59.00
Alkalinity	62.00	70.00	75.00	82.000	73.00	79.00	74.00	82.70	87.50
TDS	260.00	260.00	280.00	270.000	320.00	320.00	320.00	320.00	520.00
Hardness	137.00	111.00	130.00	140.000	130.00	140.00	130.00	140.00	170.00

SW-2 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.102	0.057 J	0.09	0.047 J	0.133	0.171	0.051 J	0.049 J	0.073 J
Bicarbonate	90.700	79.500	87.40	83.00	84.90	86.30	85.50	71.60	83.40
Chloride	**460.000**	81.000	110.00	96.00	120.00	210.00	220.00	93.00	240.00
Nitrate	2.010	2.000	2.06	1.92	2.17	2.14	2.05	1.98	2.23
Sulfate	80.000	51.000	51.00	47.00	54.00	52.00	63.00	35.00	57.00
Alkalinity	90.700	79.500	87.40	83.00	84.90	86.30	85.50	71.60	83.40
TDS	890.000	320.000	340.00	270.00	320.00	560.00	560.00	370.00	590.00
Hardness	240.000	130.000	150.00	140.00	139.00	175.00	167.00	117.00	175.00

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.095	0.072 J							
Bicarbonate	88.90	82.80							
Chloride	81.00	140.00							
Nitrate	1.80	2.04							
Sulfate	36.00	46.00							
Alkalinity	88.90	82.80							
TDS	330.00	390.00							
Hardness	133.00	139.00							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

SW-3
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	**6.0**	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.7 J	ND(0.5)	ND(0.5)	ND(0.3)	0.5
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	1.0 J	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	3.0	**6.0**	3.0	2.4	3.6	4.5	3.3
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-3 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	0.5	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	4.7	3.4	4.6	4.1 J	4.2 J	1.7 J	ND(0.30)	2.60 J	2.80 J
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-3 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.8 J	2.6 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	0.60 J	ND(0.18)	ND(0.18)	0.45 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	0.34 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	0.14 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	2.10 J	ND(0.74)	2.20 J	2.90 J	ND(5.00)	ND(5.00)	1.9 J	2.4 J	2.40 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-3 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	2.70 J	1.40 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	0.43 J	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	0.34 J	0.36 J	0.44 J
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	0.33 J	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	2.60 J	ND(1.00)	3.3	3.00	2.50	2.00	1.30 J	1.80	1.60
Toluene	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	2.00 J	6.5 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

SW-3 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	0.56J	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	1.50	1.80	2.10	1.60	1.70	2.00	1.60	1.80 J	1.70
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	0.18 J	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-3 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	0.44 J	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	1.10	1.70							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-3
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	0.100	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate		21.00	15.30	17.60	21.30	20.50	20.50	21.00	25.00
Chloride	21.30	20.50	21.10	21.60	25.00	32.40	24.80	35.00	30.00
Nitrate	4.01	3.25	5.25	2.90	3.20	3.34	1.37	3.10	3.40
Sulfate	18.20	16.00	17.40	16.00	18.70	18.60	24.40	20.00	21.00
Alkalinity	17.00	21.00	15.30	17.60	21.30	20.50	19.00	21.00	25.00
TDS	102.00	117.00	90.00	106.00	152.00	113.00	89.00	100.00	100.00
Hardness	19.00	58.82	57.60	64.5 E	59.70	58.20	28.00	43.00	58.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	1.800	ND(0.200)	ND(0.200)
Bicarbonate	20.00	23.00	23.00	23.00	24.00	21.00	18.00	21.00	23.00
Chloride	35.00	31.00	42.00	32.00	57.00	32.00	33.00	32.00	45.00
Nitrate	3.00	3.10	3.80	3.00	ND(0.50)	3.90	3.80	3.90	3.85
Sulfate	20.00	21.00	21.00	20.00	20.00	20.00	22.00	22.00	23.00
Alkalinity	20.00	23.00	23.00	22.00	24.00	21.00	18.00	21.00	23.00
TDS	150.00	100.00	170.00	110.00	188.00	123.00	166.00	108.00	180.00
Hardness	66.00	34.00	53.00	58.00	67.00	63.00	60.00	56.00	78.00

SW-3 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	ND(0.200)	0.220	0.200	0.019 J	0.049	0.040	0.050	0.06	0.07
Bicarbonate	25.00	26.00	26.00	23.80	38.00	25.90	26.40	27.79	27.20
Chloride	35.00	37.00	38.00	42.00	44.00	45.00	43.00	46.00	46.00
Nitrate	4.14	ND(0.50)	3.80	3.50	3.70	4.20	3.90	4.10	4.30
Sulfate	19.00	20.00	20.00	18.80	22.00	21.00	22.00	22.00	22.00
Alkalinity	25.00	26.00	26.00	23.80	38.00	25.90	26.40	27.79	27.20
TDS	110.00	170.00	170.00	180.00	160.00	150.00	200.00	160.00	190.00
Hardness	59.70	54.50	72.60	68.40	77.20	66.70	70.00	73.50	70.30

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	0.27	ND(0.02)	0.10	0.104	0.057 J	0.051 J	0.107	0.093	ND(0.075)
Bicarbonate	29.00	23.00	33.00	33.000	33.00	31.00	31.30	34.70	33.20
Chloride	44.00	41.00	53.00	50.000	54.00	50.00	70.00	56.00	72.00
Nitrate	4.40	4.60	4.10	4.500	5.07	4.75	4.83	3.62	5.10
Sulfate	23.00	17.00	21.00	24.000	29.00	25.00	28.00	26.00	27.00
Alkalinity	29.00	23.00	33.00	33.000	33.00	31.00	31.30	34.70	33.20
TDS	180.00	160.00	190.00	170.000	220.00	170.00	220.00	200.00	220.00
Hardness	87.60	66.50	94.00	96.000	86.00	83.00	87.00	86.00	85.00

SW-3 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.032 J	0.057 J	0.032 J	0.027 J	ND(0.075)	0.062 J	0.032 J	0.030 J	0.19
Bicarbonate	33.900	24.400	36.40	35.30	35.80	44.90	48.00	44.80	47.00
Chloride	59.000	58.000	59.00	70.00	63.00	86.00	76.00	68.00	70.00
Nitrate	4.960	5.180	4.76	4.53	4.74	4.36	4.16	4.18	4.29
Sulfate	28.000	26.000	29.00	33.00	30.00	32.00	36.00	31.00	31.00
Alkalinity	33.900	24.400	36.40	35.30	35.80	44.90	48.00	44.80	47.00
TDS	170.000	220.000	190.00	190.00	190.00	280.00	210.00	280.00	200.00
Hardness	90.000	95.000	98.00	110.00	94.00	114.00	116.00	108.00	114.00

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.053 J	0.062 J							
Bicarbonate	32.80	46.40							
Chloride	62.00	74.00							
Nitrate	4.58	4.28							
Sulfate	25.00	32.00							
Alkalinity	32.80	46.40							
TDS	250.00	260.00							
Hardness	91.80	110.00							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

SW-4
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	**6.0**	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	0.5
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	3.0	4.0	3.0 J	2.0 J	1.7	3.2	3.9	2.6
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-4 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	4.1	3.4	2.5	2.6 J	1.8 J	1.4 J	ND(0.30)	3.3 J	1.9 J
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-4 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.6 J	2.8 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	0.18 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	0.14 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	1.7 J	1.1 J	1.4 J	2.6 J	ND(5.00)	ND(5.00)	1.9 J	0.97 J	1.80 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-4 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	2.00 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	1.40	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	3.40 J	ND(1.00)	3.7	2.70	2.90	3.00	2.20	2.40	2.60
Toluene	ND(5.00)	0.33 J	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	2.60 J	6.4 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	0.34 J

SW-4 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	1.50 J	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	2.10	2.40	ND(1.5)	2.10	2.40	1.10 J	0.84 J	0.95 J	0.86 J
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-4 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.92 J	0.92 J							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-4
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	ND(1.000)	ND(0.050)	0.110	ND(0.200)	0.200	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate		34.40	30.20	28.60	25.60	27.50	27.50	32.00	31.00
Chloride	35.40	42.40	34.70	30.30	31.80	39.20	38.90	39.00	40.00
Nitrate	3.73	1.79	3.80	1.60	1.80	1.88	0.652	1.60	1.40
Sulfate	19.10	15.10	18.50	16.00	23.50	18.20	27.10	18.00	22.00
Alkalinity	18.00	34.40	30.20	28.60	25.60	27.50	27.00	32.00	31.00
TDS	131.00	141.00	113.00	74.00	110.00	133.00	109.00	110.00	120.00
Hardness	18.00	65.67	62.50	42.5 E	62.90	57.10	40.50	56.00	67.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.600	0.900	ND(0.200)	ND(0.200)
Bicarbonate	28.00	31.00	34.00	32.00	32.00	30.00	29.00	31.00	34.00
Chloride	47.00	46.00	62.00	47.00	66.00	56.00	65.00	54.00	110.00
Nitrate	1.60	1.70	2.10	1.10	2.10	2.50	2.30	2.51	2.31
Sulfate	19.00	22.00	22.00	21.00	21.00	24.00	26.00	23.00	23.00
Alkalinity	28.00	31.00	34.00	32.00	32.00	30.00	29.00	31.00	34.00
TDS	100.00	130.00	190.00	150.00	186.00	166.00	212.00	262.00	290.00
Hardness	77.00	38.00	60.00	61.00	63.00	64.00	65.00	64.00	77.00

SW-4 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	0.290	ND(0.200)	0.200	0.054	0.160	0.090	0.110	0.14	0.16
Bicarbonate	39.00	32.00	34.00	33.20	42.00	36.20	35.50	47.59	68.90
Chloride	61.00	53.00	51.00	50.10	49.00	57.00	55.00	66.00	85.00
Nitrate	2.12	2.16	2.70	2.30	3.00	3.00	2.90	2.20	1.50
Sulfate	20.00	26.00	22.00	19.20	21.00	20.00	39.00	25.00	37.00
Alkalinity	39.00	32.00	34.00	33.20	42.00	36.20	35.50	47.59	68.90
TDS	210.00	180.00	260.00	199.00	160.00	180.00	220.00	210.00	300.00
Hardness	75.50	49.90	74.20	69.70	72.90	69.10	73.40	97.30	132.00

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	0.11	0.057	0.067 J	0.063 J	ND(0.075)	ND(0.075)	0.032 J	0.134	ND(0.075)
Bicarbonate	39.00	40.00	43.00	36.000	42.00	45.00	44.10	45.70	44.90
Chloride	63.00	57.00	68.00	52.000	75.00	59.00	110.00	72.00	110.00
Nitrate	3.80	3.00	3.50	4.200	4.34	3.99	4.13	3.04	4.42
Sulfate	28.00	20.00	28.00	25.000	31.00	31.00	34.00	32.00	33.00
Alkalinity	39.00	40.00	43.00	36.000	42.00	45.00	44.10	45.70	44.90
TDS	220.00	200.00	240.00	180.000	250.00	220.00	330.00	250.00	280.00
Hardness	119.00	77.70	120.00	99.000	100.00	110.00	120.00	110.00	120.00

SW-4 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.028 J	0.041 J	ND(0.075)	0.063 J	ND(0.075)	0.12	0.16	0.08	0.062 J
Bicarbonate	46.600	45.200	47.60	46.70	48.00	43.90	43.90	41.40	44.80
Chloride	130.000	77.000	71.00	86.00	76.00	80.00	74.00	64.00	63.00
Nitrate	4.180	4.000	4.07	3.90	4.08	2.56	2.91	2.98	2.82
Sulfate	37.000	32.000	35.00	35.00	34.00	21.00	24.00	22.00	21.00
Alkalinity	46.600	45.200	47.60	46.70	48.00	43.90	43.90	41.40	44.80
TDS	330.000	260.000	230.00	240.00	210.00	240.00	230.00	260.00	180.00
Hardness	120.000	110.000	120.00	130.00	113.00	84.40	80.00	77.40	77.10

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.112	0.121							
Bicarbonate	45.50	38.20							
Chloride	64.00	55.00							
Nitrate	2.48	2.82							
Sulfate	18.00	18.00							
Alkalinity	45.50	38.20							
TDS	220.00	170.00							
Hardness	81.70	69.30							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

E: Reported value is estimated because of the presence of interference

SW-5
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	5.0	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	2.0 J	1.0 J	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.7 J	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	**5.7**	ND(3.0)	ND(3.0)	3.0 J	2.0 J	1.0	2.5	2.7	1.6
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-5 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	0.6 J
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	0.4 J
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	3.0	ND(0.3)	1.7	2.6 J	ND(1.0)	ND(1.0)	ND(0.30)	ND(0.30)	1.3 J
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-5 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.7 J	2.5 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	0.37 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	0.32 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	0.90 J	ND(5.00)	ND(5.00)	ND(5.00)	1.4 J	1.90 J
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-5 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	1.50 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	0.29 J	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	0.81 J	1.30	ND(5.00)	0.88 J	ND(1.50)	ND(1.50)	0.43 J	0.48 J	0.44 J
Toluene	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	2.50 J	12.00	ND(10.0)	ND(10.00)	ND(10.00)	2.10 J
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

SW-5 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	1.20 J	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	1.10 J	2.10	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	1.10	0.27 J
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	0.48 J	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-5 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	0.38 J	0.44 J							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-5
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate		44.70	36.40	37.40	40.50	40.00	40.00	49.00	45.00
Chloride	105.00	**3,500.00**	88.90	95.10	75.20	77.50	81.50	86.00	86.00
Nitrate	4.59	1.86	3.26	ND(0.20)	3.50	3.92	1.43	3.40	3.50
Sulfate	41.80	**482.00**	38.90	32.50	30.80	29.00	65.30	37.00	32.00
Alkalinity	38.00	44.70	36.40	37.40	40.50	40.00	43.00	49.00	45.00
TDS	319.00	71.00	228.00	278.00	254.00	205.00	202.00	220.00	230.00
Hardness	46.00	1,186.07	131.00	112.0 E	125.00	114.00	65.00	130.00	130.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.300	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate	52.00	39.00	58.00	56.00	51.00	46.00	50.00	44.00	74.00
Chloride	92.00	97.00	89.00	90.00	81.00	94.00	90.00	94.00	110.00
Nitrate	2.90	4.00	3.10	2.20	3.10	3.60	3.60	3.75	2.52
Sulfate	47.00	29.00	42.00	37.00	36.00	32.00	41.00	31.00	47.00
Alkalinity	52.00	39.00	58.00	56.00	50.00	46.00	50.00	44.00	74.00
TDS	200.00	240.00	320.00	240.00	271.00	300.00	343.00	373.00	330.00
Hardness	150.00	74.00	120.00	140.00	100.00	90.00	130.00	97.00	160.00

SW-5 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	ND(0.200)	0.223	0.200	0.150	0.070	0.070	0.160	0.07	0.18
Bicarbonate	59.00	41.00	50.00	62.10	84.00	55.50	81.50	64.23	87.20
Chloride	120.00	64.00	64.00	77.00	100.00	73.00	90.00	86.00	114.00
Nitrate	3.57	1.87	2.09	1.20	2.90	2.20	1.20	1.30	1.96
Sulfate	34.00	32.00	26.00	25.00	34.00	25.00	43.00	87.00	40.00
Alkalinity	59.00	41.00	50.00	62.10	84.00	55.50	81.50	64.23	87.20
TDS	320.00	220.00	240.00	274.00	300.00	220.00	300.00	260.00	360.00
Hardness	132.90	72.90	106.60	111.00	142.00	103.00	132.00	128.00	157.00

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	0.18	0.160	0.14	0.195	0.074 J	0.200	0.091	0.274	0.029 J
Bicarbonate	99.00	100.00	96.00	54.000	71.00	47.00	51.00	44.20	49.80
Chloride	110.00	98.00	83.00	60.000	140.00	54.00	89.00	69.00	80.00
Nitrate	1.30	2.20	1.10	1.800	2.19	2.50	2.46	ND(0.100)	2.78
Sulfate	39.00	39.00	25.00	29.000	64.00	24.00	31.00	24.00	27.00
Alkalinity	99.00	100.00	96.00	54.000	71.00	47.00	51.00	44.20	49.80
TDS	340.00	340.00	290.00	210.000	420.00	200.00	260.00	220.00	250.00
Hardness	194.00	161.00	150.00	100.000	130.00	86.00	96.00	86.00	86.00

SW-5 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.140	0.091	0.069 J	0.105	0.172	0.080	0.194	0.111	0.069 J
Bicarbonate	45.500	85.900	50.10	28.40	65.30	56.10	55.10	71.70	54.30
Chloride	70.000	200.000	96.00	**1,500.00**	160.00	120.00	78.00	130.00	62.00
Nitrate	2.600	2.160	2.01	1.13	1.56	1.71	2.45	2.55	2.36
Sulfate	25.000	66.000	33.00	**250.00**	36.00	31.00	27.00	51.00	23.00
Alkalinity	45.500	85.900	50.10	28.40	65.30	56.10	55.10	71.70	54.30
TDS	220.000	560.000	260.00	3,000.00	420.00	360.00	240.00	460.00	190.00
Hardness	89.000	190.000	100.00	450.00	159.00	101.00	88.80	154.00	88.10

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.069 J	0.087							
Bicarbonate	54.30	52.40							
Chloride	62.00	60.00							
Nitrate	2.36	2.28							
Sulfate	23.00	21.00							
Alkalinity	54.30	52.40							
TDS	190.00	200.00							
Hardness	90.80	91.00							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

SW-6
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	5.0	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	1.0 J	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(0.7)	ND(0.6)	ND(0.3)	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-6 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-6 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.5 J	2.6 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-6 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	1.30 J	ND(5.00)	2.0 J	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	9.8 J	2.00 J	9.80 J	ND(10.0)	ND(10.00)	ND(10.00)	2.20 J
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

SW-6 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	4.30 J	2.40 J	ND(10.00)
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-6 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	2.7 J	2.4 J							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-6
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	ND(1.000)	ND(0.050)	ND(0.050)	ND(0.200)	ND(0.100)	ND(0.200)	ND(0.200)	0.220	ND(0.200)
Bicarbonate		35.60	45.50	39.60	55.40	41.00	41.00	33.00	47.00
Chloride	144.00	94.70	42.20	38.90	38.60	98.10	23.00	77.00	29.00
Nitrate	ND(1.00)	1.07	0.31	ND(0.20)	0.49	1.05	ND(0.05)	ND(0.50)	ND(0.50)
Sulfate	14.60	16.90	14.80	14.50	18.70	18.60	15.40	9.20	13.00
Alkalinity	45.00	35.60	45.50	39.60	55.40	41.00	29.00	33.00	47.00
TDS	363.00	239.00	130.00	104.00	162.00	252.00	75.00	150.00	100.00
Hardness	40.00	71.02	65.30	65.8 E	76.10	65.70	44.00	49.00	57.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.400	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate	39.00	44.00	37.00	13.00	34.00	44.00	42.00	48.00	42.00
Chloride	150.00	44.00	65.00	14.00	520.00	82.00	100.00	67.00	190.00
Nitrate	ND(0.50)	1.60	ND(0.50)	ND(0.50)	ND(0.50)	0.80	ND(0.50)	0.974	0.844
Sulfate	19.00	16.00	16.00	25.00	26.00	11.00	17.00	17.00	22.00
Alkalinity	39.00	44.00	37.00	13.00	34.00	44.00	42.00	48.00	42.00
TDS	220.00	130.00	180.00	64.00	903.00	401.00	280.00	350.00	410.00
Hardness	85.00	34.00	50.00	33.00	76.00	63.00	59.00	61.00	80.00

SW-6 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	ND(0.200)	0.219	0.500	0.098	0.320	0.070	0.150	0.19	0.42
Bicarbonate	45.00	58.00	55.00	57.30	67.00	55.90	59.30	48.20	58.90
Chloride	60.00	94.00	74.00	73.70	63.00	130.00	83.00	140.00	93.00
Nitrate	ND(0.50)	ND(0.50)	1.18	0.57	2.00	0.72	0.45	0.55	0.65
Sulfate	24.00	23.00	18.00	17.60	21.00	20.00	27.00	22.00	17.00
Alkalinity	45.00	58.00	55.00	57.30	67.00	55.90	59.30	48.20	58.90
TDS	190.00	13,000.00	230.00	218.00	180.00	290.00	240.00	320.00	240.00
Hardness	80.60	63.00	83.50	78.30	75.50	81.40	76.20	84.60	80.10

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	0.44	0.310	0.051 J	0.151	0.074 J	0.053 J	0.030 J	0.184	0.087
Bicarbonate	59.00	43.00	53.00	48.000	43.00	49.00	30.60	43.90	44.20
Chloride	97.00	71.00	84.00	52.000	150.00	80.00	220.00	66.00	**250.00**
Nitrate	0.60	0.72	0.47	0.190	0.28	0.022 J	0.29	ND(0.100)	1.02
Sulfate	21.00	12.00	12.00	14.000	36.00	16.00	20.00	10.00	21.00
Alkalinity	59.00	43.00	53.00	48.000	43.00	49.00	30.60	43.90	44.20
TDS	250.00	200.00	240.00	160.000	370.00	200.00	440.00	160.00	470.00
Hardness	95.00	58.20	78.00	68.000	91.00	77.00	78.00	52.00	82.00

SW-6 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.028 J	0.160	0.108	0.059 J	0.056 J	0.051 J	0.13	0.060 J	0.14
Bicarbonate	29.800	41.600	16.70	91.20	27.10	39.60	40.40	45.20	59.60
Chloride	70.000	160.000	33.00	180.00	43.00	220.00	140.00	240.00	96.00
Nitrate	ND(0.100)	0.144	0.53	ND(0.10)	ND(0.1)	ND(0.10)	0.96	0.95	0.58
Sulfate	22.000	17.000	44.00	14.00	4.00 J	15.00	16.00	20.00	18.00
Alkalinity	29.800	41.600	16.70	91.20	27.10	39.60	40.40	45.20	59.60
TDS	170.000	360.000	110.00	350.00	95.00	470.00	320.00	550.00	220.00
Hardness	55.000	69.000	45.00	40.00	28.00	80.80	52.80	82.00	79.00

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.139	0.085							
Bicarbonate	59.60	22.80							
Chloride	96.00	47.00							
Nitrate	0.58	0.179							
Sulfate	18.00	13.00							
Alkalinity	59.60	22.80							
TDS	220.00	120.00							
Hardness	77.40	50.50							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

SW-7
Historical Analysis of Volatile Organic Compounds
East Northport Landfill, East Northport, NY
Reported in Micrograms per Liter

Parameter	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Chloromethane	ND(10.0)	ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(4.6)	ND(2.3)	ND(1.1)	ND(1.1)
Bromomethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(3.8)	ND(1.8)	ND(0.6)	ND(0.6)
Vinyl Chloride	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.7)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(10.0)	ND(1.0)	ND(1.0)	ND(10.0)	ND(10.0)	ND(1.8)	ND(1.6)	ND(0.7)	ND(0.7)
Methylene Chloride	ND(5.0)	4.0	ND(3.0)	ND(5.0)	ND(5.0)	ND(2.7)	ND(0.6)	ND(0.4)	ND(0.4)
Trichloroflouromethane		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(1.5)	ND(0.4)	ND(0.4)
1,1-Dichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.2)	ND(0.4)	ND(0.4)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.4)	ND(0.7)	ND(0.2)	ND(0.2)
*1,2-Dichloroethene, Total		ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.7)	ND(1.0)	ND(0.4)	ND(0.4)
Chloroform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.6)	ND(0.4)	ND(0.3)	ND(0.3)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(1.9)	ND(0.5)	ND(0.3)	ND(0.3)
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.5)	ND(0.3)	ND(0.3)
Carbon Tetrachloride	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.4)	ND(0.3)	ND(0.3)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.3)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.8)	ND(0.4)	ND(0.4)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)
Benzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.6)	ND(0.3)	ND(0.3)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.3)	ND(0.3)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(0.9)	ND(0.3)	ND(0.3)
2-Chloroethylvinyl ether		ND(4.0)	ND(4.0)	ND(10.0)	ND(10.0)	ND(0.6)	ND(1.5)	ND(1.1)	ND(1.1)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.7)	ND(0.3)	ND(0.3)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.5)	ND(1.0)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(5.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(0.7)	ND(0.6)	ND(0.3)	ND(0.3)
Toluene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.8)	ND(0.5)	ND(0.3)	ND(0.3)
Chlorobenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.6)	ND(0.5)	ND(0.2)	ND(0.2)
Ethylbenzene	ND(5.0)	ND(2.0)	ND(2.0)	ND(5.0)	ND(5.0)	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.4)
1,2-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(1.5)	ND(0.2)	ND(0.2)	ND(0.2)
1,3-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.7)	ND(0.4)	ND(0.4)	ND(0.4)
1,4-Dichlorobenzene		ND(2.0)	ND(2.0)	ND(10.0)	ND(10.0)	ND(0.5)	ND(0.3)	ND(0.3)	ND(0.3)

SW-7 (continued)

Parameter	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Chloromethane	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.4)	ND(1.4)	ND(2.2)	ND(0.49)	ND(0.49)	ND(0.45)
Bromomethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.7)	ND(1.7)	ND(2.9)	ND(0.61)	ND(0.61)	ND(1.30)
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.28)	ND(0.28)	ND(0.62)
Chloroethane	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.62)	ND(0.62)	ND(1.10)
Methylene Chloride	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.40)	ND(1.40)	ND(0.98)
Trichloroflouromethane	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.3)	ND(1.3)	ND(1.5)	ND(0.80)	ND(0.80)	ND(0.58)
1,1-Dichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(0.1)	ND(0.28)	ND(0.28)	ND(0.28)
1,1-Dichloroethane	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.29)	ND(0.29)	ND(0.33)
*1,2-Dichloroethene, Total	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.0)	ND(1.0)	ND(1.3)	ND(0.32)	ND(0.32)	ND(0.40)
Chloroform	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.18)
1,2-Dichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.2)	ND(0.19)	ND(0.19)	ND(0.28)
1,1,1-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(0.5)	ND(0.34)	ND(0.34)	ND(0.17)
Carbon Tetrachloride	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.5)	ND(0.5)	ND(0.1)	ND(0.18)	ND(0.18)	ND(0.34)
Bromodichloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.29)	ND(0.29)	ND(0.30)
1,2-Dichloropropane	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.2)	ND(0.32)	ND(0.32)	ND(0.27)
cis-1,3-Dichloropropene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.21)	ND(0.21)	ND(0.26)
Trichloroethene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.9)	ND(0.9)	ND(0.1)	ND(0.27)	ND(0.27)	ND(0.59)
Benzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.1)	ND(0.17)	ND(0.17)	ND(0.35)
Dibromochloromethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(1.2)	ND(0.30)	ND(0.30)	ND(0.22)
trans-1,3-Dichloropropene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.5)	ND(1.5)	ND(0.7)	ND(0.23)	ND(0.23)	ND(0.29)
1,1,2-Trichloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.0)	ND(0.28)	ND(0.28)	ND(0.24)
2-Chloroethylvinyl ether	ND(1.1)	ND(1.1)	ND(1.1)	ND(4.8)	ND(4.8)	ND(2.7)	ND(1.70)	ND(1.70)	ND(6.20)
Bromoform	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.5)	ND(1.5)	ND(1.3)	ND(0.25)	ND(0.25)	ND(0.22)
1,1,2,2-Tetrachloroethane	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.8)	ND(1.9)	ND(0.27)	ND(0.27)	ND(0.35)
Tetrachloroethene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.30)	ND(0.30)	ND(0.74)
Toluene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.23)	ND(0.23)	ND(0.38)
Chlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.47)
Ethylbenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(1.2)	ND(1.2)	ND(0.8)	ND(0.17)	ND(0.17)	ND(0.50)
1,2-Dichlorobenzene	ND(0.2)	ND(0.2)	ND(0.2)	ND(1.6)	ND(1.6)	ND(0.5)	ND(0.20)	ND(0.20)	ND(0.67)
1,3-Dichlorobenzene	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.8)	ND(0.8)	ND(0.7)	ND(0.28)	ND(0.28)	ND(0.35)
1,4-Dichlorobenzene	ND(0.3)	ND(0.3)	ND(0.3)	ND(1.4)	ND(1.4)	ND(0.8)	ND(0.30)	ND(0.30)	ND(0.79)

SW-7 (continued)

Parameter	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Chloromethane	ND(0.45)	ND(0.45)	ND(0.45)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(1.30)	ND(1.30)	ND(1.30)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(0.62)	ND(0.62)	ND(0.62)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroethane	ND(1.10)	ND(1.10)	ND(1.10)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Methylene Chloride	ND(0.98)	ND(0.98)	ND(0.98)	ND(5.00)	ND(5.00)	ND(5.00)	2.5 J	2.7 J	ND(5.00)
Trichloroflouromethane	ND(0.58)	ND(0.58)	ND(0.58)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(0.33)	ND(0.33)	ND(0.33)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
*1,2-Dichloroethene, Total	ND(0.40)	ND(0.40)	ND(0.40)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chloroform	ND(0.18)	ND(0.18)	ND(0.18)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloroethane	ND(0.28)	ND(0.28)	ND(0.28)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,1-Trichloroethane	ND(0.17)	ND(0.17)	ND(0.17)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Carbon Tetrachloride	ND(0.34)	ND(0.34)	ND(0.34)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromodichloromethane	ND(0.30)	ND(0.30)	ND(0.30)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichloropropane	ND(0.27)	ND(0.27)	ND(0.27)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
cis-1,3-Dichloropropene	ND(0.26)	ND(0.26)	ND(0.26)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroethene	ND(0.59)	ND(0.59)	ND(0.59)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Benzene	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Dibromochloromethane	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
trans-1,3-Dichloropropene	ND(0.29)	ND(0.29)	ND(0.29)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2-Trichloroethane	ND(0.36)	ND(0.36)	ND(0.36)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
2-Chloroethylvinyl ether	ND(6.20)	ND(6.20)	ND(6.20)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(25.00)
Bromoform	ND(0.22)	ND(0.22)	ND(0.22)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1,2,2-Tetrachloroethane	ND(0.35)	ND(0.35)	ND(0.35)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Tetrachloroethene	ND(0.74)	ND(0.74)	ND(0.74)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Toluene	ND(0.38)	ND(0.38)	ND(0.38)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Chlorobenzene	ND(0.47)	ND(0.47)	ND(0.47)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Ethylbenzene	ND(0.50)	ND(0.50)	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,2-Dichlorobenzene	ND(0.67)	ND(0.67)	ND(0.67)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(0.65)	ND(0.35)	ND(0.65)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(0.79)	ND(0.79)	ND(0.79)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)

SW-7 (continued)

Parameter	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Chloromethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(10.00)	ND(10.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(2.00)	ND(5.00)	1.70 J	1.30 J	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(3.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,2-Dichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(5.00)	ND(1.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(5.00)	ND(0.70)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(5.00)	NA	ND(5.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(5.00)	ND(2.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(5.00)	ND(1.00)	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(2.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	NA	NA	ND(10.00)	3.20 J	9.80 J	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)
Tert-Butyl Alcohol	NA	NA	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	NA	NA	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)

SW-7 (continued)

Parameter	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Chloromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Bromomethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Vinyl Chloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Methylene Chloride	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Trichloroflouromethane	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,1-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Chloroform	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.0)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)
Carbon Tetrachloride	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Bromodichloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichloropropane	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Trichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Benzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Dibromochloromethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)
Bromoform	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Tetrachloroethene	ND(1.50)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.5)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)
Toluene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Chlorobenzene	ND(3.50)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.5)	ND(3.50)	ND(3.50)	ND(3.50)	ND(3.50)
Ethylbenzene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.0)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Acetone	ND(10.00)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.0)	ND(10.00)	ND(10.00)	2.5 J	2.5 J
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.0)	ND(100.00)	ND(100.00)	ND(100.00)	ND(100.00)
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.0)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Methyl Tert Butyl Ether	NA	NA	NA	NA	ND(10.0)	NA	NA	NA	NA

SW-7 (continued)

Parameter	6/20	10/20							
Chloromethane	ND(5.00)	ND(5.00)							
Bromomethane	ND(5.00)	ND(5.00)							
Vinyl Chloride	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(5.00)	ND(5.00)							
Trichloroflouromethane	ND(5.00)	ND(5.00)							
1,1-Dichloroethene	ND(1.00)	ND(1.00)							
1,1-Dichloroethane	ND(1.50)	ND(1.50)							
*1,2-Dichloroethene, Total	ND(1.50)	ND(1.50)							
Chloroform	ND(1.00)	ND(1.00)							
1,2-Dichloroethane	ND(1.50)	ND(1.50)							
1,1,1-Trichloroethane	ND(2.00)	ND(2.00)							
Carbon Tetrachloride	ND(1.00)	ND(1.00)							
Bromodichloromethane	ND(1.00)	ND(1.00)							
1,2-Dichloropropane	ND(3.50)	ND(3.50)							
cis-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
Trichloroethene	ND(1.00)	ND(1.00)							
Benzene	ND(1.00)	ND(1.00)							
Dibromochloromethane	ND(1.00)	ND(1.00)							
trans-1,3-Dichloropropene	ND(1.50)	ND(1.50)							
1,1,2-Trichloroethane	ND(1.50)	ND(1.50)							
2-Chloroethylvinyl ether	ND(10.00)	ND(10.00)							
Bromoform	ND(1.00)	ND(1.00)							
1,1,2,2-Tetrachloroethane	ND(1.00)	ND(1.00)							
Tetrachloroethene	ND(1.50)	ND(1.50)							
Toluene	ND(1.00)	ND(1.00)							
Chlorobenzene	ND(3.50)	ND(3.50)							
Ethylbenzene	ND(1.00)	ND(1.00)							
1,2-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,3-Dichlorobenzene	ND(5.00)	ND(5.00)							
1,4-Dichlorobenzene	ND(5.00)	ND(5.00)							
Acetone	ND(10.00)	ND(10.00)							
Tert-Butyl Alcohol	ND(100.00)	ND(100.00)							
cis-1,2-Dichloroethene	ND(1.00)	ND(1.00)							
Methyl Tert Butyl Ether	ND(10.00)	ND(10.00)							

Note:
ND( ): Compound not detected at method detection limit
*1,2-Dichloroethene, Total: Sum of Trans and Cis 1,2-Dichloroethene
J: Indicates an estimated value; compound is present at a concentration less than specified detection limit
B: The analyte was found in an associated blank, as well as in the sample

SW-7
Historical Analysis of Metals and Leachate Indicators
East Northport Landfill, East Northport, NY
Reported in Milligrams per Liter

Leachate Indicators (mg/l)	6/96	4/97	9/97	4/98	9/98	4/99	9/99	4/00	9/00
Ammonia	ND(1.000)	ND(0.050)	0.070	ND(0.200)	ND(0.100)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Bicarbonate		48.40	66.00	50.60	61.80	48.00	48.00	45.00	55.00
Chloride	**4,316.00**	**4,470.00**	**2,750.00**	**3,810.00**	**3,620.00**	**3,080.00**	**5,835.00**	**1,500.00**	**3,300.00**
Nitrate	5.00	0.62	0.32	0.44	0.30	0.67	ND(0.05)	ND(0.50)	ND(0.50)
Sulfate	**705.00**	**808.00**	248.00	**530.00**	**447.00**	**416.00**	**953.00**	28.00	**270.00**
Alkalinity	56.00	48.40	66.00	50.60	61.80	48.00	61.00	45.00	55.00
TDS	8,840.00	3,260.00	5,890.00	226.00	274.00	5,450.00	8,860.00	2,400.00	5,300.00
Hardness	341.00	1,435.54	1,848.00	1,200.0 E	1,050.00	934.00	92.00	510.00	1,200.00

Leachate Indicators (mg/l)	4/01	9/01	4/02	9/02	4/03	10/03	6/04	10/04	4/05
Ammonia	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.400	**2.800**	ND(0.200)	0.329
Bicarbonate	44.00	54.00	53.00	51.00	44.00	55.00	46.00	43.00	48.00
Chloride	**1,800.00**	**2,600.00**	**2,500.00**	**3,600.00**	**1,100.00**	**3,900.00**	**1,500.00**	**1,300.00**	**2,400.00**
Nitrate	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	0.80	ND(0.50)	ND(0.50)	1.15	0.654
Sulfate	240.00	**370.00**	**270.00**	**310.00**	180.00	**750.00**	**440.00**	**190.00**	**380.00**
Alkalinity	44.00	54.00	53.00	52.00	44.00	56.00	46.00	43.00	48.00
TDS	2,700.00	3,600.00	4,600.00	6,800.00	2,108.00	8,213.00	6,010.00	2,393.00	4,300.00
Hardness	530.00	140.00	730.00	1,200.00	320.00	668.00	209.00	390.00	667.00

SW-7 (continued)

Leachate Indicators (mg/l)	9/05	8/06	11/06	7/07	11/07	4/08	9/08	4/09	9/09
Ammonia	ND(0.200)	0.635	ND(0.200)	0.097	0.130	0.090	0.130	0.18	0.17
Bicarbonate	65.00	26.00	60.00	53.20	76.00	65.70	61.30	51.21	52.30
Chloride	**2,600.00**	**2,500.00**	**1,400.00**	**1,460.00**	**4,500.00**	**3,000.00**	**2,300.00**	**2300.00**	**620.00**
Nitrate	ND(0.50)	ND(0.50)	0.71	0.44	0.94	0.36	0.44	1.40	0.51
Sulfate	**350.00**	**370.00**	220.00	199.00	**390.00**	**380.00**	**420.00**	**330.00**	86.00
Alkalinity	35.00	26.00	60.00	53.20	76.00	65.70	61.30	51.21	52.30
TDS	2,600.00	5,100.00	2,800.00	2,800.00	7,100.00	4,900.00	5,400.00	4200.00	1100.00
Hardness	778.10	691.90	608.10	478.00	1,470.00	806.00	996.00	789.00	222.00

Leachate Indicators (mg/l)	6/10	10/11	5/12	9/12	5/13	10/13	4/14	9/14	4/15
Ammonia	0.07	0.200	0.18	0.128	0.097	0.279	0.083	0.288	0.028 J
Bicarbonate	41.00	63.00	61.00	49.000	93.00	78.00	83.10	75.60	87.80
Chloride	**500.00**	**3,000.00**	**2,900.00**	**1,300.000**	**12,000.00**	**6,900.00**	**4,400.00**	**7,800.00**	**13,000.00**
Nitrate	2.30	0.36	2.10	0.590	0.21	0.64	0.92	ND(0.100)	0.30
Sulfate	77.00	**420.00**	**310.00**	190.000	**1,800.00**	**1,100.00**	**1,200.00**	**1,200.00**	**1,800.00**
Alkalinity	41.00	63.00	61.00	49.000	93.00	78.00	83.10	75.60	87.80
TDS	940.00	6,000.00	5,300.00	2,500.000	25,000.00	14,000.00	14,000.00	16,000.00	23,000.00
Hardness	210.00	1,030.00	810.00	570.000	3,300.00	1,100.00	1,600.00	2,100.00	2,800.00

SW-7 (continued)

Leachate Indicators (mg/l)	9/15	5/16	9/16	4/17	9/17	6/18	11/18	4/19	9/19
Ammonia	0.178	0.111	0.193	0.106	0.165	0.102	0.061 J	0.111	ND(0.075)
Bicarbonate	98.900	92.000	90.40	77.00	85.20	89.30	95.70	92.20	45.40
Chloride	**14,000.000**	**11,000.000**	**11,000.00**	**6,800.00**	**8,400.00**	**9,100.00**	**11,000.00**	**11,000.00**	1000.00
Nitrate	0.214	0.276	0.46	0.54	0.54	0.16	0.26	0.21	1.05
Sulfate	**1,600.000**	**1,600.000**	**1,600.00**	**1,000.00**	**1,200.00**	**1,300.00**	**1,600.00**	**1,700.00**	150.00
Alkalinity	98.900	92.000	90.40	77.00	85.20	89.30	95.70	92.20	45.40
TDS	27,000.000	23,000.000	22000.00	13,000.00	15,000.00	18,000.00	25,000.00	22,000.00	2100.00
Hardness	3,500.000	3,500.000	3200.00	1,900.00	2,260.00	2,740.00	3,370.00	3,240.00	346.00

Leachate Indicators (mg/l)	6/20	10/20							
Ammonia	0.159	0.211							
Bicarbonate	92.80	101.00							
Chloride	**9,600.00**	**8,000.00**							
Nitrate	0.302	0.804							
Sulfate	**1,300.00**	**940.00**							
Alkalinity	92.80	101.00							
TDS	19,000.00	14,000.00							
Hardness	3,370.00	2,050.00							

Note:

ND( ): Compound not detected at method detection limit

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

B: The analyte was found in an associated blank, as well as in the sample

APPENDIX E

FIELD OBSERVATION LOGS

APPENDIX E

FIELD OBSERVATION LOGS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/14/2022

WELL ID: **CW1-M** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 104.60'
Initial static water level (feet from top of casing) ..... 59.36'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
6 in. casing: 45.24 ft. of water x 1.47 = 68 gallons

volume of water removed:
350 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	7.05	16.72	0.113	0.0	0.00	-72	0.1
100	7.40	16.64	0.112	0.0	0.00	-94	0.1
150	7.65	16.67	0.112	0.0	0.00	-107	0.1
200	7.85	16.68	0.111	0.0	0.00	-117	0.1
250	7.87	16.69	0.111	0.0	0.00	-120	0.1
300	7.90	16.76	0.111	0.0	0.00	-121	0.1
350	7.94	16.74	0.110	0.0	0.00	-122	0.1

Purging Rate: 5 GPM
Purging Time: 70 min
Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 9:40 a.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
X Disposable bailer
____
____ Dedicated pump

Analyses (Pace Analytical Laboratory)
X VOCs
X Metals
Leachate
X Parameters

Observations
Weather/Temperature: Sunny, 43 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/14/2022

WELL ID: **CW1-S** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 77.40'
Initial static water level (feet from top of casing) ..... 59.34'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
4 in. casing: ____ ft. of water x 0.65 = ____ gallons
6 in. casing: 18.06 ft. of water x 1.47 = 27 gallons

volume of water removed:
200 gal. >3 volumes: yes x no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	7.66	16.17	0.295	0.0	0.0	-116	0.1
40	7.63	17.02	0.296	0.0	0.0	-145	0.1
80	7.68	17.09	0.299	0.0	0.0	-150	0.1
120	7.85	17.12	0.301	0.0	0.0	-157	0.1
160	7.92	17.12	0.304	0.0	0.0	-161	0.1
200	7.96	17.14	0.306	0.0	0.0	-162	0.1

Purging Rate: 4 GPM
Purging Time: 55 min
Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 11:32 a.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Sunny, 43 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/15/2022

WELL ID: **CW2-M** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 116.51'
Initial static water level (feet from top of casing) ..... 80.33'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
4 in. casing:	36.18	ft. of water x 0.65 =	24	gallons
6 in. casing:		ft. of water x 1.47 =		gallons

volume of water removed: 120 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	8.78	13.04	0.107	0.0	5.61	91	0.0
20	8.20	13.14	0.105	0.0	2.10	88	0.0
40	6.77	13.24	0.097	0.0	0.00	86	0.0
60	6.40	13.26	0.095	0.0	0.00	104	0.0
80	6.37	13.25	0.091	0.0	0.00	108	0.0
100	6.36	13.25	0.090	0.0	0.00	109	0.0
120	6.35	13.26	0.090	0.0	0.00	110	0.0

Purging Rate: 4 GPM Purging Time: 45 min Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 2:30 p.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy, 40 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/14/2022

WELL ID: **CW4-M** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 147.45'
Initial static water level (feet from top of casing) ..... 95.30'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
4 in. casing:	52.15	ft. of water x 0.65 =	34	gallons
6 in. casing:		ft. of water x 1.47 =		gallons

volume of water removed: 175 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	8.71	13.70	0.113	0.0	9.44	120	0.1
25	7.28	13.45	0.115	0.0	10.56	152	0.1
50	7.18	13.35	0.115	0.0	9.75	164	0.1
75	7.11	13.25	0.116	0.0	9.32	174	0.1
100	7.04	13.20	0.116	0.0	7.42	178	0.1
125	6.94	13.20	0.116	0.0	7.12	184	0.1
150	6.92	13.22	0.115	0.0	6.96	189	0.1
175	6.89	13.22	0.115	0.0	7.00	193	0.1

Purging Rate: 2.5 GPM
Purging Time: 70 min
Sampling Rate: NA
Well headspace PID =0.0 ppm

Sampling
Time of Sample Collection: 2:00 p.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Sunny, 43 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/14/2022

WELL ID: **CW4-S** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 117.10'
Initial static water level (feet from top of casing) ..... 95.45'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
4 in. casing: 21.65 ft. of water x 0.65 = 14 gallons
6 in. casing: ____ ft. of water x 1.47 = ____ gallons

volume of water removed: 60 gal. >3 volumes: yes X no ____ purged dry? almost X no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	7.71	13.35	0.098	0.0	1.28	154	0.0
10	7.26	14.16	0.079	0.0	0.00	131	0.0
20	7.17	14.35	0.078	0.0	0.00	108	0.0
30	7.00	14.76	0.086	0.0	0.00	92	0.0
40	6.90	15.05	0.089	0.0	0.00	99	0.0
50	6.90	15.15	0.098	0.0	0.00	108	0.0
60	6.90	15.21	0.101	0.0	0.00	119	0.0

Purging Rate: 1 GPM
Purging Time: 60 min
Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 3:25 p.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
X Disposable bailer
____
____ Dedicated pump

Analyses (Pace Analytical Laboratory)
X VOCs
X Metals
Leachate
X Parameters

Observations
Weather/Temperature: Sunny, 43 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/17/2022

WELL ID: **EN1-M** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 175.60'
Initial static water level (feet from top of casing) ..... 69.11'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:
2 in. casing: ft. of water x 0.16 = gallons
4 in. casing: 106.49 ft. of water x 0.65 = 69 gallons
6 in. casing: ft. of water x 1.47 = gallons

volume of water removed: 12.5 liters. >3 volumes: yes ___ no X purged dry? yes ___ no X

Field Tests

Volume of Purge Water (mL)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	6.47	11.27	0.129	0.0	6.53	156	0.1
1,250	6.38	11.32	0.127	0.0	7.74	160	0.1
2,500	6.34	11.34	0.126	0.0	7.64	162	0.1
3,750	6.30	11.24	0.126	0.0	7.17	164	0.1
5,000	6.26	11.31	0.127	0.0	7.97	166	0.1
6,250	6.21	11.29	0.126	0.0	8.09	177	0.1
7,500	6.20	11.23	0.125	0.0	7.83	171	0.1
8,750	6.18	11.37	0.124	0.0	7.95	173	0.1
10,000	6.19	11.27	0.124	0.0	7.86	173	0.1
11,250	6.19	11.34	0.123	0.0	7.87	174	0.1
12,500	6.20	11.41	0.124	0.0	7.74	172	0.1

Purging Rate: 250 ml/m Purging Time: 60 min Sampling Rate: 250 ml/m
Well head space PID = 0.0 ppm

Sampling
Time of Sample Collection: 1:30 p.m.

Method:		Analyses (Pace Analytical Laboratory)	
	Submersible Pump	X	VOCs
	In-Line Filter (Diss. Metals)		
	Pos. Disp. Pump	X	Metals
	Disposable bailer		Leachate
		X	Parameters
X	Low flow bladder pump	X	PFAS and 1,4-Dioxane

Observations
Weather/Temperature: Sunny, 40F
Sample description: Clear, no odor
Free Product? yes ___ no X describe
Sheen? yes ___ no X describe
Odor? yes ___ no X describe
Note: Collected MS/MSD samples

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/15/2022

WELL ID: **EN6-M** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 174.00'
Initial static water level (feet from top of casing) ..... 96.70'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
4 in. casing:	77.30	ft. of water x 0.65 =	50	gallons
6 in. casing:		ft. of water x 1.47 =		gallons

volume of water removed:
240 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
40	6.67	11.67	0.211	0.0	1.24	146	0.1
80	6.64	11.75	0.211	0.0	1.21	161	0.1
120	6.69	11.79	0.212	0.0	1.10	168	0.1
160	6.71	11.81	0.212	0.0	1.15	175	0.1
200	6.74	11.82	0.212	0.0	1.01	175	0.1
240	6.74	11.84	0.213	0.0	1.06	177	0.1

Purging Rate: 4 GPM
Purging Time: 60 min
Sampling Rate: NA
well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 9:15 a.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy, 40 F
Sample description: Slightly cloudy, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/15/2022

WELL ID: **EN6-S** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 113.70'
Initial static water level (feet from top of casing) ..... 97.80'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
4 in. casing:	15.9	ft. of water x 0.65 =	10	gallons
6 in. casing:		ft. of water x 1.47 =		gallons

volume of water removed:
70 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	6.12	11.74	0.155	0.0	8.71	216	0.1
10	5.70	11.87	0.155	0.0	8.61	221	0.1
20	5.66	11.89	0.156	0.0	8.42	222	0.1
30	5.63	11.93	0.156	0.0	8.31	224	0.1
40	5.63	11.94	0.157	0.0	8.32	232	0.1
50	5.65	11.97	0.157	0.0	8.33	239	0.1
60	5.66	11.97	0.158	0.0	8.23	239	0.1

Purging Rate: 2.5 GPM
Purging Time: 30 min
Sampling Rate: NA
Well head space PID = 0.0 ppm

Sampling
Time of Sample Collection: 10:25 a.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Disposable bailer
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy, 40 F
Sample description: Clear, no odor
Free Product? yes ____ No X describe ____
Sheen? yes ____ No X describe ____
Odor? yes ____ No X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/16/2022

WELL ID: **EN7-M** Time On-site: Time Off-site:
SAMPLERS: KR
Depth of well (feet from top of casing) ..... 223.74'
Initial static water level (feet from top of casing) ..... 26.61'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	X

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
4 in. casing: 197.13 ft. of water x 0.65 = 128 gallons
6 in. casing: ____ ft. of water x 1.47 = ____ gallons

volume of water removed:
20 liters. >3 volumes: yes ___ no X purged dry? yes ____ no X

Field Tests

Volume of Purge Water (liters)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	7.32	12.09	0.523	90.1	0.00	-56	0.3
2.5	7.35	11.99	0.544	0.0	0.00	-58	0.3
5	7.32	11.93	0.551	0.0	0.00	-57	0.3
7.5	7.30	11.93	0.556	0.0	0.00	-53	0.3
10	7.29	11.94	0.556	0.0	0.00	-56	0.3
12.5	7.28	11.87	0.556	0.0	0.00	-55	0.3
15	7.30	11.87	0.556	0.0	0.00	-56	0.3
17.5	7.30	11.84	0.557	0.0	0.00	-56	0.3
20	7.33	11.79	0.557	0.0	0.00	-57	0.0

Sampling
purging rate = 500ml/m
Time of Sample Collection: 3:30 p.m. sampling rate= 500 ml/m, Purge time = 45 min
Method:

	Submersible Pump	X	VOCs
	In-Line Filter (Diss. Metals)		
	Pos. Disp. Pump	X	Metals
	Disposable bailer		Leachate
		X	Parameters
X	Low flow bladder pump	X	PFAS and 1,4-Dioxane

Analyses (Pace Analytical Laboratory)
Well headspace PID = 0.0 ppm

Observations
Weather/Temperature: Mostly cloudy, 50F
Sample description: Clear, no odor
Free Product? yes ____ no X describe
Sheen? yes ____ no X describe
Odor? yes ____ no X describe

Note: Collected Blind Duplicate at well EN7-M

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/15/2022

WELL ID: **EN9-M** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 133.60'
Initial static water level (feet from top of casing) ..... 27.61'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
4 in. casing:	105.99	ft. of water x 0.65 =	69	gallons
6 in. casing:		ft. of water x 1.47 =		gallons

volume of water removed: 350 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	9.15	10.78	0.252	0.0	5.13	115	0.1
50	7.18	10.75	0.300	0.0	4.76	170	0.1
100	7.07	10.76	0.311	0.0	4.96	179	0.1
150	7.04	10.76	0.315	0.0	4.99	183	0.1
200	7.02	10.76	0.318	0.0	5.04	187	0.1
250	7.03	10.76	0.318	0.0	4.96	189	0.1
300	7.03	10.75	0.316	0.0	4.86	190	0.1
350	7.03	10.76	0.313	0.0	4.75	191	0.1

Purging Rate: 5 GPM Purging Time: 70 min Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 12:45 p.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Disposable bailer
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy, 40 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/17/2022

WELL ID: **EN10-M** Time On-site: Time Off-site:
SAMPLERS: KR
Depth of well (feet from top of casing) ..... 416.00'
Initial static water level (feet from top of casing) ..... 223.66'
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
4 in. casing:	192.34	ft. of water x 0.65 =	125	gallons
6 in. casing:		ft. of water x 1.47 =		gallons

volume of water removed: 500 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Initial	5.98	12.71	0.064	9.1	4.51	247	0.1
50	3.75	14.35	0.200	0.2	7.22	350	0.1
100	3.45	14.11	0.169	5.7	6.29	357	0.1
150	3.52	14.29	0.207	2.6	8.36	360	0.1
200	3.52	14.30	0.210	2.3	8.68	367	0.1
250	3.52	14.23	0.209	2.2	7.62	375	0.1
300	3.52	14.28	0.210	1.7	7.55	379	0.1
350	3.56	14.35	0.210	1.5	7.77	386	0.1
400	3.58	14.35	0.210	1.5	8.05	388	0.1
450	3.60	14.23	0.210	1.3	8.06	388	0.1
500	3.60	14.29	0.210	1.3	8.06	392	0.1

Purging Rate: 1.25 GPM
Purging Time: 6 hours, 20 min
Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling
Time of Sample Collection: 4:00 p.m.

Method:
- ____ Submersible Pump
- ____ In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- X Stainless Steel bailer
- ____ Dedicated pump
- ____

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Metals
- ____ Leachate
- X Parameters
- X PFAS and 1,4-Dioxane
- ____

Observations
Weather/Temperature: Sunny, 40 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-1** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: _____ ft. of water x 0.65 = _____ gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:
NA gal. >3 volumes: yes ____ no ____ purged dry? yes ____ no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	6.28	6.74	0.317	8.5	9.75	235	0.1

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 11:45 a.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
____ Disposable bailer
____ X ____ Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
____ Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold, 35 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-2** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
4 in. casing: ____ ft. of water x 0.65 = ____ gallons
6 in. casing: ____ ft. of water x 1.47 = ____ gallons

volume of water removed:
NA gal. >3 volumes: yes ____ no ____ purged dry? yes ____ no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	6.90	7.82	0.407	0.7	0.75	194	0.2

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 1:25 p.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
____ Disposable bailer
____ X ____ Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
____ Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold 35 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-3** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: _____ ft. of water x 0.65 = _____ gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:
NA gal. >3 volumes: yes ____ no ____ purged dry? yes ____ no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	6.44	9.82	0.370	9.8	8.40	246	0.2

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 2:00 p.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
____ Disposable bailer
____ X ____ Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
____ Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold 35 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-4** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: _____ ft. of water x 0.65 = _____ gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:
NA gal. >3 volumes: yes ____ no ____ purged dry? yes ____ no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	6.51	5.44	0.319	1.7	9.19	234	0.1

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 12:10 p.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
____ Disposable bailer
____ X Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
____ Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold 35 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe _____
Sheen? yes ____ no X describe _____
Odor? yes ____ no X describe _____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-5** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: _____ ft. of water x 0.65 = _____ gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:
NA gal. >3 volumes: yes ____ no ____ purged dry? yes ____ no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	6.89	5.86	0.332	12.3	9.90	261	0.2

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 2:45 p.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
____ Disposable bailer
____ X Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
____ Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold 35 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-6** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift	___	Centrifugal	___
Bailer	___	Pos. Displ.	___
Submersible Pump	___	Disposable Bladder Pump (Low Flow)	___

Well Volume Calculation:
2 in. casing: ___ ft. of water x 0.16 = ___ gallons
4 in. casing: ___ ft. of water x 0.65 = ___ gallons
6 in. casing: ___ ft. of water x 1.47 = ___ gallons

volume of water removed:
NA gal. >3 volumes: yes ___ no ___ purged dry? yes ___ no ___

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	6.50	2.11	0.263	177	6.29	185	0.1

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 11:45 a.m.

Method:
___ Submersible Pump
___ In-Line Filter (Diss. Metals)
___ Pos. Disp. Pump
Disposable bailer
___
X Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
___
Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold 35 F
Sample description: Clear, no odor
Free Product? yes ___ no X describe ___
Sheen? yes ___ no X describe ___
Odor? yes ___ no X describe ___

D&B ENGINEERS AND ARCHITECTS

EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD

SITE East Northport Landfill DATE 11/21/2022

WELL ID: **SW-7** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... Surface Water
Initial static water level (feet from top of casing) ..... NA
Approximate Pump Inlet (feet from top of casing) .....

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump		Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:
2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: _____ ft. of water x 0.65 = _____ gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:
NA gal. >3 volumes: yes ____ no ____ purged dry? yes ____ no ____

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)	Salinity (%)
Sample	8.46	6.11	23.4	18.3	11.85	109	14

Purging Rate: - Purging Time: - Sampling Rate: NA
Grab sample

Sampling
Time of Sample Collection: 3:30 p.m.

Method:
____ Submersible Pump
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump
____ Disposable bailer
____ X ____ Hand Dipper

Analyses (Pace Analytical Laboratory)
X VOCs
____
____ Leachate
X Parameters

Observations
Weather/Temperature: Sunny, cold 35 F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

APPENDIX F

CHAIN OF CUSTODY FORMS

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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YORK Project No. 23L1191

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YOUR Information	Report To:	Invoice To:
Company: D+B Engineers + Architects	Company:	Company:
Address: 330 Crossways Park Dr. Woodbury, NY 11797	Address: 11	Address: 11 Same
Phone: 516-364-9890	Phone.: Same	Phone.:
Contact: Keith Robins	Contact: 11	Contact: 11
E-mail: labdata@db-eng.com KRobins@dbreng.com	E-mail:	E-mail:

YOUR Project Number: 5629

YOUR Project Name: East NorthPort Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: CAT B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN10-M	GW	12/14/23@4:20	Full Perg Polyfluoroalkyl Substances (1633) & 1,4 Dioxane (8270) low detection (0.2ng/L) Required	500mL Amber 500mL Plastic	1 2

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/14/23 5:58	K Barlow-K	12/15/23 4PM	K Barlow-K	12/15/23 1830
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					12/15/23 1830 2.7 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 23L06458

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YOUR Information	Report To:	Invoice To:
Company: DtB Engineers + Architects	Company:	Company:
Address: 330 Crossways Park Dr Woodbury, NY, 11776	Address: 11 Same	Address: 11 Same
Phone.: (516)-364-9890	Phone.:	Phone.:
Contact: Keith Robins	Contact:	Contact:
E-mail: KRobins@dtb-eng.com	E-mail: 11	E-mail: 11

YOUR Project Number: 5629

YOUR Project Name: East North Port Groundwater

YOUR PO#: 5629

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: Cat. B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN1-M-12/8/23	GW	12/8/23 10:45	Full Per & Polyfluoroalkyl Substances (1633) and 1,4 dioxane (8270) low detection (0.249) required	1 500mL Amber, 2 500mL Plastic	1, 2
EN1-M-12/8/23-MS	↓	↓	↓	↓	
EN1-M-12/8/23-MSD	↓	↓	↓	↓	

Comments: analysis is same for all samples on this COC Page

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
(D+B)	12/8/23	Ramon York	12/8/23 1500	Ramon York	12/8/23 19:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time: 12/8/23 19:35 Temperature: 1.3 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 2360644

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YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: DTB Engineers + Architects	Company:	Company:	5629	RUSH - Next Day
Address: 330 Crossways Park Dr Woodbury, NY, 11797	Address: 11	Address: 11	YOUR Project Name: East NorthPort Groundwater	RUSH - Two Day
Phone: (516)-364-9890	Phone.: Same	Phone.: Same		RUSH - Three Day
Contact: Keith Robins	Contact: 11	Contact:		RUSH - Four Day
E-mail: Krobinse dbreng.com	E-mail:	E-mail: 11	YOUR PO#: 5629	RUSH - Five Day
				Standard (6-9 Day) X
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: Cat. B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN1-M-12/8/23	GW	12/8/23 10:45	Target Compound List, VOC's (624), aluminum, arsenic, cadmium, calcium, chromium, iron, lead, magnesium, mercury, Potassium, Sodium, alkalinity / Bicarbonate, ammonia, nitrate, Chloride, Sulfate, dissolved solids & Hardness	40mL glass Vial	3
EN1-M-12/8/23-MS	↓	↓ ↓		250mL Plastic	2
EN1-M-12/8/23-MSD	↓	↓ ↓		1L Plastic	2

Comments: Analyses is same for all Samples on this C.O.C

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ✓ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/8/23	Raman York	12/8/23 1500	Raman York	12/8/23 19:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	12/8/23 19:35 1.3 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 23L0785

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YOUR Information	Report To:	Invoice To:
Company: D+B Engineers + Architects	Company:	Company:
Address: 330 Crossway Park Dr, Woodbury, NY	Address: //	Address: //
Phone: 516-364-9890	Phone.: //	Phone.: Same
Contact: Keith Robins	Contact: Same	Contact:
E-mail: KRobins@dbeng.com	E-mail: //	E-mail: //

YOUR Project Number: 5629

YOUR Project Name: E. Northport Groundwater

YOUR PO#: 5629

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
RUSH - Five Day	
Standard (6-9 Day)	X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Seascare

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: ____

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN7-M-12/11/23	GW	12/11/23	Full Per & Poly Fluoroalkyl	1500mL amb	
Field-Blank-12/11/23		2:25	Substances (1633) 3	2 500mL Plastic	
Blind-Duplicate-12/11/23		0000	1,4 Dioxane (8270) low detection (0.2µg/L)		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ____

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction
Field Filtered
Lab to Filter

Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/11/23	KBarb York	12/12/23 9:50 AM	KBarb York	12/12/23 18:15
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					12/12/23 18:15 / 1.7 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 23L1187

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YOUR Information	Report To:	Invoice To:
Company: DtB Engineers + Architects	Company:	Company:
Address: 330 Cross Ways Park Dr, Woodbury, NY, 11797	Address: Same	Address: Same
Phone.: 516-364-9890	Phone.:	Phone.:
Contact: Keith Robins	Contact:	Contact:
E-mail: labdata@db-eng.com krobins@db-eng.com	E-mail:	E-mail:

YOUR Project Number: 5629

YOUR Project Name: East Northport Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** ✓

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NY ASP B Package
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- Other: Cat B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN10-M	GW	12/14/23 04:20	Target Compound List, VOCs (624)	1L Plastic	2
Trip-Blank-12/14/23	GW		aluminum, arsenic, cadmium,	250ml Plastic	2
			Calcium, chromium, iron, lead,	40ml Glass Vial	3
			magnesium, mercury, Potassium,		
			Sodium, alkalinity/Bicarbonate,		
			ammonia, nitrate, Chloride,		
			Sulfate, dissolved Solids and		
			Hardness		

Comments:

Preservation: (check all that apply)

HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ✓ NaOH ___

ZnAc ___ Ascorbic Acid ___ Other: ___

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/14/23 5:30	K Barlyork	12/14/23 4PM	K Barlyork	12/15/23 18:30
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				2	12/15/23 18:30 1.1 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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YORK Project No. 23L0558

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YOUR Information	Report To:	Invoice To:
Company: DTB Engineers + Architects	Company: Same	Company: Same
Address: 330 Crossways Park Dr. Woodbury, NY, 11797	Address: "	Address: "
Phone.: 516-364-9890	Phone.: "	Phone.: "
Contact: Keith Robins	Contact: Keith Robins	Contact: "
E-mail: KRobins@db-eng.com	E-mail: KRobins@db-eng.com	E-mail: "

YOUR Project Number: 5629

YOUR Project Name: East North Port Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sossa

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; QA Report; CMDP; Standard Excel EDD; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; Other:_____; EQuIS (Standard); NYSDEC EQuIS; NJDKQP; NJDEP SRP HazSite

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
CW-1S	GW	12/6/23 1:30	Volatile Organics, metals and	3 40ml V. al, 2 1L Plastic, 2 250ml	7
CW-1M	↓	12/6/23 2:33	hardness, ALK, Bicarb ALK, TDS,	↓	↓
CW-2M	↓	12/6/23 4:05	NO2, NH3, NO3, Cadmium,		
			Arsenic, Chromium, aluminum,		
			Calcium, Iron, Lead, Magnesium,		
			Mercury, Potassium, Sodium		
			Alkalinity/Bicarbonate, ammonium,		
			Nitrate, Chloride, TDS, Hardness		
			Sulfate		

Comments: Analyses is Same for all 4 Samples, Provide Category "B" and EQuIS Send data to labdata@db-eng.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Daniel Sossa/DTB	12/7/23	Ramon York	12/7/23 1455	Ramon York	12/7/23
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time: 12/7/23 20:00 Temperature: 3.9 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 2310806

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YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: D+B Engineers + Architects	Company:	Company:	5629	RUSH - Next Day
Address: 330 Crossways Park Dr Woodbury, NY, 11797	Address: Same	Address: Same	YOUR Project Name E. Northport Groundwater	RUSH - Two Day
Phone.: 516-364-9890	Phone.:	Phone.:		RUSH - Three Day
Contact: Keith Robins	Contact:	Contact:		RUSH - Four Day
E-mail: KRobins@dandb-eng.com	E-mail:	E-mail:	YOUR PO#: 5629	RUSH - Five Day
				Standard (6-9 Day) ✓
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Daniel Sasso

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN7-M-12/11/23	GW	12/11/23 2:25	TCL, VOCs (624), aluminum, arsenic, cadmium, calcium, chromium, iron, lead, magnesium, mercury, potassium, sodium, alkalinity/bicarbonate, ammonia, Nitrate, Chloride, Sulfate, Dissolved Solids, Hardness	3) 40mL Vial; 2) 250mL Plastic; 2) 500mL Plastic	
Field-Blank-12/11/23	↓	↓	↓	↓	
Blind-Duplicate-12/11/23					

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/11/23	KBakyork	12/12/23 9:50 AM	KBakyork	12/12/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				TC2	12/12/23 18:15 / 1.2 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 23L0901

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YOUR Information	Report To:	Invoice To:
Company: D&B Engineers & Architects	Company:	Company:
Address: 330 Crossways Park Drive, Woodbury, NY 11797	Address:	Address:
Phone.: 516-364-9890	Phone.:	Phone.:
Contact: Keith Robins	Contact:	Contact:
E-mail: krobins@db-eng.com	E-mail:	E-mail:

YOUR Project Number: 5629

YOUR Project Name: East Northport Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X
- PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Christopher Andrade

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- NY ASP-B Package
- Other: Category "B"

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
SW 7	Surface Water	12-12-2023 11:30	VOCs (624), Alkalinity, Bicarbonate, ammonia, nitrate, chloride, sulfate, TDS, Hardness	3 HCl Vom Vials	
SW 4		11:50		1 - 250 mL H2SO4	
SW 1		12:10		2 - 1L plastic unpreserved	
SW 2		12:45			
SW 3		1:00			
SW 5		1:15			
SW 6		2:00			
Trip blank, 12-12-2023	Water		VOCs (624)		

Comments:

Preservation: (check all that apply)

HCl X MeOH ___ HNO3 ___ H2SO4 X NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

- Field Filtered
- Lab to Filter

Samples iced/chilled at time of lab pickup? circle Yes or No

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Christopher Andrade D&B	5:00 12-12-2023	KBarkwork	12/13/23 930 AM	KBarkwork	12/13/23 1545
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	12/13/23 1545 5.6 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 23L0639

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YOUR Information	Report To:	Invoice To:
Company: D+B Engineers + Architects	Company:	Company:
Address: 330 Crossways Park Dr, Woodbury, NY, 11797	Address: " Same	Address: " Same
Phone: 516-364-9890	Phone:	Phone:
Contact: Keith Robins	Contact:	Contact:
E-mail: Krobinsedb-eng.com	E-mail: "	E-mail: "

YOUR Project Number: 5629

YOUR Project Name: East Northport Groundwater Sampling

YOUR PO#: 5629

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
RUSH - Five Day	
Standard (6-9 Day)	X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid	
GW - groundwater	
DW - drinking water	
WW - wastewater	
O - Oil / Other	

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other:	

Report / EDD Type (circle selections)

Summary Report	CT RCP	EQuIS (Standard)
QA Report	CT RCP DQA/DUE	NYSDEC EQuIS
CMDP	NJDEP Reduced Deliverables	NJDKQP
Standard Excel EDD		NJDEP SRP HazSite
NY ASP B Package	Other: Cat. B	

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
CW-4M	GW	12/7/23 9:15	Volatile organics, metals + Hardness	(3) 40ml V. vials	3
CW-4S		12/7/23 10:45	ALK, Bicarb, TDS, NO_2, NH_3,	(2) 1L Plastic	2
EN-6S		12/7/23 1:20	NO_3, Cadmium, Arsenic, Chromium,	(2) 250mL	2
EN-6M		12/7/23 2:35	Aluminum, Calcium, Iron, Lead,	Plastic	
EN-9M		12/7/23 3:55	Magnesium, Mercury, Potassium,		
			Sodium, Ammonium, Nitrate,		
			Chloride, TDS, Hardness, Sulfate		

Comments: Analysis Same for all four samples, Provide Category "B" + EQuIS
Send data to labdata@dbeng.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ___ H2SO4 ✓ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered X
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
DFB	12/7/23 4:45	Ramon York	12/8/23 1560	Ramon York	12/8/23 19:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	12/8/23 19:35 / 1.4 Degrees C

APPENDIX G

DATA VALIDATION FORMS

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 6, 2023
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 3 Field Duplicates/ 0 Trip Blanks / 0 Field Blanks/ 0
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	Volatile Organic Compounds (VOCs): by 624.1 Metals: Total by SW846 Method 6010D or 6020B and Mercury by 245.1 General Chemistry: Hardness (SM 2340B), Alkalinity (SM2320B), Chloride, Nitrate, and Sulfate, (USEPA 300.0), Total Dissolved Solids (SM 2540C), Bicarbonate (SM 2310B), and Ammonia (SM 22 4500)
Laboratory Report No:	23L0558 Date: 2/1/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

D&B ENGINEERS AND ARCHITECTS, P.C.

Custody Numbers: 23L0558
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
CW-1S	23L0558-001	12/6/2023		X			X	X
CW-1M	23L0558-002	12/6/2023		X			X	X
CW-2M	23L0558-003	12/6/2023		X			X	X

The field blank was analyzed in data package 23L0806.

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks		X	X		
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X	X		
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
The performance was acceptable, except the following:

2C. Chloroform was detected in the field blank in data package 23L0806. It was not detected in the samples therefore qualification of the data was not necessary.

6. The %Rs were below the QC limits in the LCS and LCSD for 2-chloroethylvinyl ether and tetrachloroethylene associated with all samples. 2-Chloroethylvinyl ether and tetrachloroethylene were qualified as an estimated detection limit (UJ) in all samples.

11. The %D was above the QC limit for bromomethane associated with all samples in the continuing calibration. It was not detected in the samples therefore qualification of the data was not necessary.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X		X	
B. Field blanks		X	X		
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X	X		
8. Spike sample %R		X		X	
9. Post digestive spike sample %R		X		X	
10. Duplicate RPD		X		X	
11. Serial dilution check %D					X
12. Field duplicate					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
The performance was acceptable, except the following:

2B. Calcium was detected in the field blank in data package 23L0806. Based on sample results qualification of the data was not necessary.

7. The sodium %R was above QC limit in the LCS associated with all samples. Sodium was qualified as estimated (J) in all samples.

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X	X		
3. Standards %R		X		X	
4. Laboratory spike %R		X		X	
5. CRDL standard %R					X
6. Laboratory duplicate RPD		X		X	
7. Matrix spike and matrix spike duplicate %R		X	X		
8. Field duplicate					X

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
The performance was acceptable, except the following:

The chloride results in sample CW-1S and sulfate in samples CW-1M were analyzed at a secondary dilution (D).

2B. Chloride, alkalinity, and ammonia were detected in the field blank in data package 23L0806. Ammonia was qualified as non-detect (UB) in samples CW-1M and CW-2M.

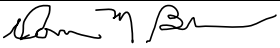
7. The %R was below the QC limit for sulfate, and it was qualified as estimated (J) in all samples.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0558

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOC			
All samples	2-Chloroethylvinyl ether and tetrachloroethylene	UJ	The %Rs were below the QC limits in the LCS and LCSD
Metals			
All samples	Sodium	J	%R was above QC limit in the LCS
General Chemistry			
CW-1S	Chloride	D	Analyzed at a secondary dilution
CW-1M	Sulfate		
CW-1M and CW-2M	Ammonia	UB	In the field blank in data package 23L0806
All samples	Sulfate	J	The %R was below the QC limit

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/27/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

kiDATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 7, 2023
Sample Team:	Daniel Sassone
Matrix/Number of Samples:	Water/ 4 Field Duplicates/ 0 Trip Blanks / 1 Field Blanks/ 0
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	Volatile Organic Compounds (VOCs): by 624.1 Metals: Total by SW846 Method 6010D or 6020B and Mercury by 245.1 General Chemistry: Hardness (SM 2340B), Alkalinity (SM2320B), Chloride, Nitrate, and Sulfate, (USEPA 300.0), Total Dissolved Solids (SM 2540C), Bicarbonate (SM 2310B), and Ammonia (SM 22 4500)
Laboratory Report No:	23L0639 Date: 1/12/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

Custody Numbers: 23L0639
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
CW-4M	23L0639-01	12/7/2023		X			X	X
CW-4S	23L0639-02	12/7/2023		X			X	X
EN-6S	23L0639-03	12/7/2023		X			X	X
EN-6M	23L0639-04	12/7/2023		X			X	X
EN-9M	23L0639-05	12/7/2023		X			X	X
TRIP BLANK	23L0639-06	12/7/2023		X				

The field blank was analyzed in data package 23L0806.

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X	X		
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%D - percent difference
RRF - relative response factor
%R - percent recovery
%RSD - percent relative standard deviation
RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

2C. Chloroform was detected in the field blank in data package 23L0806. Chloroform was qualified as non-detect (UB) in samples CW-4M and EN-6S.

6. The %Rs were below the QC limits in the LCS and LCSD for 2-chloroethylvinyl ether and tetrachloroethylene. 2-Chloroethylvinyl ether and tetrachloroethylene were qualified as estimated (UJ/J) in all samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks		X	X		
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X	X		
8. Spike sample %R					X
9. Post digestive spike sample %R					X
10. Duplicate RPD					X
11. Serial dilution check %D					X
12. Field duplicate					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

2. Calcium was detected in the field blank and lab blank. Based on sample concentration the B qualifier was removed from samples CW-4M, CW-4S, EN6-S, and EN-9M.

7. The LCS %R was above the QC limit in sodium. Sodium was qualified as estimated (J) in all samples.

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X	X		
3. Standards %R		X		X	
4. Laboratory spike %R		X		X	
5. CRDL standard %R					X
6. Laboratory duplicate RPD		X		X	
7. Matrix spike and matrix spike duplicate %R		X	X		
8. Field duplicate					X

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
Performance was acceptable, except the following:

The chloride results in samples EN6-S, EN6-M, and EN9-M were analyzed at a secondary dilution (D).

2B. Chloride, alkalinity, and ammonia were detected in the field blank. Ammonia was qualified as non-detect (UB) for sample CW-4S.

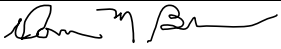
7. The %R was below the QC limit for sulfate it was qualified as estimated (J) in all samples.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0639

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOC			
CW-4M and EN-6S	Chloroform	UB	Detected in the field blank in data package 23L0806
All samples	2-Chloroethylvinyl ether and tetrachloroethylene	UJ/J	The %Rs were below the QC limits in the LCS and LCSD
Metals			
CW-4M, CW-4S, EN6-S, and EN-9M	Calcium	B removed	Detected in the field blank and lab blank
Aall samples	Sodium	J	The LCS %R was above the QC limit
General Chemistry			
EN6-S, EN6-M, and EN9-M	Chloride	D	Analyzed at a secondary dilution
CW-4S	Ammonia	UB	Detected in the field blank
All samples	Sulfate	J	The %R was below the QC limit

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/28/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 7&8, 2023
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 1 (EN1-M) Field Duplicates/ 0 Trip Blanks / 1 Field Blanks/ 0 the field blank was analyzed in data package 23L0806
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	Volatile Organic Compounds (VOCs): by 624.1 Metals: Total by SW846 Method 6010D or 6020B and Mercury by 245.1 General Chemistry: Hardness (EPA 200.7), Alkalinity (SM2320B), Chloride, Nitrate, and Sulfate, (USEPA 300.0), Total Dissolved Solids (SM 2540C), Bicarbonate (SM 2310B), and Ammonia (SM 22 4500)
Laboratory Report No:	23L0644 Date: 1/15/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, method the USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X	X		
3. Matrix spike (MS) %R		X	X		
4. Matrix spike duplicate (MSD) %R		X	X		
5. MS/MSD precision (RPD)		X		X	
6. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
The performance was acceptable, except the following:

2C. Chloroform was detected in the field blank in data package 23L0806. It was qualified as non-detect (UB) in sample EN1-M.

3,4,&6. The %Rs were below the QC limits in the MS, MSD, LCS and/or LCSD for 2-chloroethylvinyl ether and tetrachloroethylene associated with the samples. 2-Chloroethylvinyl ether and tetrachloroethylene were qualified as an estimated detection limit (UJ) in all samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks		X	X		
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X	X		
8. Spike sample %R		X	X		
9. Post digestive spike sample %R		X	X		
10. Duplicate RPD		X	X		
11. Serial dilution check %D		X		X	
12. Field duplicate					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
The performance was acceptable, except the following:

2A&B. Calcium was detected in the blank sample and field blank in data package 23L0806. Based on sample concentration the B qualifier was removed from sample EN1-M.

7. The LCS %R was above the QC limit for sodium for sample EN1-M. Sodium was qualified as estimated (J) in sample EN1-M.

8&9. The spike and post spike %Rs were below the QC limits for aluminum, chromium, and iron for sample EN1-M and were qualified estimated bias low (JL).

10. The duplicate RPDs were above the QC limits for aluminum, chromium, iron, and potassium for sample EN1-M and were qualified estimated (J).

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X	X		
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					
3. Standards %R		X		X	
4. Laboratory spike %R		X		X	
5. CRDL standard %R					X
6. Laboratory duplicate RPD		X		X	
7. Matrix spike and matrix spike duplicate %R		X	X		
8. Field duplicate					X

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
The performance was acceptable, except the following:

1. Nitate was analyzed outside the holding time in sample EN1-M and qualified as estimated (J).

2B. Chloride, alkalinity, and ammonia were detected in the field blank. No qualification of the data was necessary.

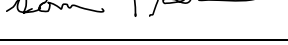
7. The spike %R was below the QC limit for sulfate associated with sample EN1-M and were qualified estimated (J).

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0644

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOC			
EN1-M	Chloroform	UB	Detected in the field blank in data package 23L0806
All samples	2-Chloroethylvinyl ether and tetrachloroethylene	UJ	The %Rs were below the QC limits in the MS, MSD, LCS and/or LCSD
Metals			
EN1-M	Calcium	B removed	Blank results
EN1-M	Sodium	J	The LCS %R was above the QC limit
EN1-M	Aluminum, chromium, and iron	JL	The spike and post spike %Rs were below the QC limits
EN1-M	Aluminum, chromium, iron, and potassium	J	The duplicate RPDs were above the QC limits
General Chemistry			
EN1-M	Nitate	J	Analyzed outside the holding time
EN1-M	Sulfate	J	The spike %R was below the QC limit

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/27/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 8, 2023
Sample Team:	Danial Sassone
Matrix/Number of Samples:	Water/ 1 (EN1-M) Field Duplicates/ 0 Trip Blanks / 0 Field Blanks/ was analyzed in 23L0785
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	1,4-Dioxane: by Method 8270D PFAS: by Method 1633
Laboratory Report No:	23L0648 Date: 1/10/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs January 2021; method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

ORGANIC ANALYSES
1,4-Dioxane

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
3. Matrix spike (MS) %R		X		X	
4. Matrix spike duplicate (MSD) %R		X		X	
5. MS/MSD precision (RPD)		X		X	
6. Laboratory control sample (LCS) %R		X		X	
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%D - percent difference
RRF - relative response factor
%R - percent recovery
%RSD - percent relative standard deviation
RPD - relative percent difference

Comments:
The performance was acceptable.

ORGANIC ANALYSES
PFAS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
3. MS and MSD %R and RPD		X	X		
4. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R and %RPD		X	X		
5. Surrogate spike recoveries		X	X		
6. Instrument performance check					X
7. Internal standard retention times and areas		X		X	
8. Initial calibration RRF's and %RSD's		X	X		
9. Continuing calibration RRF's and %D's		X		X	
10. Transcriptions – quant report vs. Form I		X		X	
11. Field duplicates RPD					X

VOCs - volatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable, with the following exception:

3&4. The %Rs were outside the QC limits for perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), N-EtFOSA, perfluoro-5-oxahexanoic acid (PFMBA), and perfluorotridecanoic acid (PFTrDA) in the LSC, LSCD, MS and/or MSD. They were qualified as an estimated limit (UJ) in sample EN1-M.

The RPD was above the QC limit for the MS/MSD for perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), perfluoro-5-oxahexanoic acid (PFMBA), and 3-perfluoropropyl propanoic acid, and N-EtFOSE. They were not detected therefore qualification of the data was necessary.

5. The following surrogates %Rs were outside the QC limits: perfluoro-n-[13C4]butanoic acid (MPFBA) and M3HFPO-DA were below in samples EN-1M. They were not detected therefore; qualification of the data was not necessary.

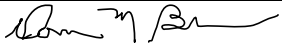
8. The RSDs were above the for 1H,1H,2H,2H-perfluorodecanesulfonic acid and 1H,1H,2H,2H-perfluorohexanesulfonic acid in the initial calibration. They were qualified as an estimated limit (UJ) in sample EN1-M.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0648

Sample ID	Analyte(s)	Qualifier	Reason(s)
1,4-Dioxane			
No qualification of the data was necessary.			
PFAs			
EN1-M	Perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), N-EtFOSA, perfluoro-5-oxahexanoic acid (PFMBA), and perfluorotridecanoic acid (PFTrDA)	UJ	%Rs were outside the QC limits in the LSC, LSCD, MS and/or MSD
EN1-M	1H,1H,2H,2H-perfluorodecanesulfonic acid and 1H,1H,2H,2H-perfluorohexanesulfonic acid	J/UJ	The RSDs were above the initial calibration.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/29/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 11, 2023
Sample Team:	Danial Sassone
Matrix/Number of Samples:	Water/ 1 (EN7-M) Field Duplicates/ 1(Blind Duplicate) Trip Blanks / 0 Field Blanks/ 1
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	1,4-Dioxane: by Method 8270D PFAS: by Method 1633
Laboratory Report No:	23L0785 Date: 1/11/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs January 2021; method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

ORGANIC ANALYSES
1,4-Dioxane

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) %R		X		X	
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD		X		X	

VOCs - volatile organic compounds
%D - percent difference
RRF - relative response factor
%R - percent recovery
%RSD - percent relative standard deviation
RPD - relative percent difference

Comments:
The performance was acceptable.

ORGANIC ANALYSES
PFAS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
3. Duplicate (RPD)					X
4. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
5. Surrogate spike recoveries		X	X		
6. Instrument performance check					X
7. Internal standard retention times and areas		X		X	
8. Initial calibration RRF's and %RSD's		X	X		
9. Continuing calibration RRF's and %D's		X	X		
10. Transcriptions – quant report vs. Form I		X		X	
11. Field duplicates RPD		X	X		

VOCs - volatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery %RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable, with the following exception:

4. The %Rs were outside the QC limits for perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), perfluoro-5-oxahexanoic acid (PFMBA), and perfluorotridecanoic acid (PFTrDA) in LCS associated with all samples and were qualified as estimated (J/UJ).

   The %Rs were outside the QC limits for 3-perfluoropropyl propanoic acid (FPrPA), N-EtFOSA, and 3-perfluoroheptyl propanoic acid (FHpPA) in LCS associated with sample EN7-M and were qualified as estimated (J/UJ).

5. The surrogate %Rs were outside QC limits: M4PFHpA and perfluoro-n-[13C4]butanoic acid (MPFBA) in the Field Blank; perfluoro-n-[13C4]butanoic acid (MPFBA), perfluoro-n-[13C5,]pentanoic acid (M5PFPeA), M2-6:2 FTS, and M2-4:2 FTS in the Blind Duplicate; and M4PFHpA, perfluoro-n-[13C4]butanoic acid (MPFBA), and M2-4:2 FTS in sample EN7-M. The following PFAs were detected and qualified as estimated (J): perfluoroheptanoic acid (PFHpA) in sample EN7-M; perfluoropentanoic acid (PFPeA) and 1H,1H, 2H, 2H-perfluorooctane sulfonic acid in the Blind Duplicate; and perfluorobutanoic acid (PFBA) in samples Blind Duplicate and EN7-M.

8. The RSDs were above the for 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS) and 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS) in the initial calibration. They were qualified as estimated (J/UJ) in all samples.

9. The %D was above the QC limit for N-EtFOSA associated with all samples. It was not detected in the samples therefore qualification of the data was not necessary.

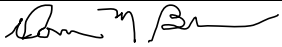
11. Sample EN7-M was field duplicated and labeled BLIND DUPLICATE. Based on field duplicate results perfluorohexanesulfonic acid (PFHxS), perfluoropentanoic acid (PFPeA), and perfluoro-n-butanoic acid (PFBA) was qualified as estimated (J) in samples EN7-M and BLIND DUPLICATE.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0785

Sample ID	Analyte(s)	Qualifier	Reason(s)
1,4-Dioxane			
No qualification of the data was necessary.			
PFAs			
All samples	Perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), perfluoro-5-oxahexanoic acid (PFMBA), and perfluorotridecanoic acid (PFTrDA)	J/UJ	%Rs were outside the QC limits
EN7-M	3-Perfluoropropyl propanoic acid (FPrPA), N-EtFOSA, and 3-perfluoroheptyl propanoic acid (FHpPA)		
EN7-M	Perfluoroheptanoic acid (PFHpA)	J	The surrogate %Rs were outside QC limits
Blind Duplicate	Perfluoropentanoic acid (PFPeA) and 1H,1H, 2H, 2H-perfluorooctane sulfonic acid		
Blind Duplicate and EN7-M	Perfluorobutanoic acid (PFBA)		
All samples	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS) and 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	J/UJ	The RSDs were above in the initial calibration

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/29/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

kiDATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 11, 2023
Sample Team:	Daniel Sassone
Matrix/Number of Samples:	Water/ 1(EN7-M) Field Duplicates/ 1(Blind Duplicate) Trip Blanks / 0 Field Blanks/ 1
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	Volatile Organic Compounds (VOCs): by 624.1 Metals: Total by SW846 Method 6010D or 6020B and Mercury by 245.1 General Chemistry: Hardness (SM 2340B), Alkalinity (SM2320B), Chloride, Nitrate, and Sulfate, (USEPA 300.0), Total Dissolved Solids (SM 2540C), Bicarbonate (SM 2310B), and Ammonia (SM 22 4500)
Laboratory Report No:	23L0806 Date: 1/16/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks		X	X		
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD		X		X	

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

2C. Chloroform was detected in the field blank. It was not detected in the samples therefore qualification of the data was not necessary.

6. The %Rs were below the QC limits in the LCS and/or LCSD for 2-chloroethylvinyl ether and tetrachloroethylene associated with all samples. 2-Chloroethylvinyl ether and tetrachloroethylene were qualified as an estimated detection limit (UJ) in all samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X		X	
B. Field blanks		X	X		
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X	X		
8. Spike sample %R					X
9. Post digestive spike sample %R					X
10. Duplicate RPD					X
11. Serial dilution check %D					X
12. Field duplicate		X		X	

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

2B. Calcium was detected in the field blank. Based on sample results qualification of the data was not necessary.

7. The %R was above the QC limit for sodium in the LCS. It was qualified as estimated (J) in sample EN7-M.

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X	X		
3. Standards %R		X			
4. Laboratory spike %R		X		X	
5. CRDL standard %R					
6. Laboratory duplicate RPD		X		X	
7. Matrix spike and matrix spike duplicate %R					
8. Field duplicate		X		X	

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
The performance was acceptable, except the following:

Chloride was reported from a secondary dilution (D) in sample EN7-M.

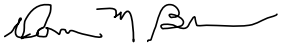
2B. Chloride, alkalinity, and ammonia were detected in the field blank. No qualification of the data was necessary.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0806

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOC			
All samples	2-Chloroethylvinyl ether and tetrachloroethylene	UJ	The %Rs were below the QC limits in the LCS and LCSD
Metals			
EN7-M	Sodium	J	The %R was above the QC limit in the LCS
General Chemistry			
EN7-M	Chloride	D	Reported from secondary dilution

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 8/7/2023
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 12, 2023
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 7 Field Duplicates/ 0 Trip Blanks / 1 Field Blanks/ 0
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	Volatile Organic Compounds (VOCs): by 624.1 General Chemistry: Hardness (EPA 200.7), Alkalinity (SM2320B), Chloride, Nitrate, and Sulfate, (USEPA 300.0), Total Dissolved Solids (SM 2540C), Bicarbonate (SM 2310B), and Ammonia (SM 22 4500)
Laboratory Report No:	23L0901 Date: 1/11/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, the USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

D&B ENGINEERS AND ARCHITECTS, P.C.

Custody Numbers: 23L0901
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
SW-7	23L0901-001	12/12/2023		X				X
SW-4	23L0901-002	12/12/2023		X				X
SW-1	23L0901-003	12/12/2023		X				X
SW-2	23L0901-004	12/12/2023		X				X
SW-3	23L0901-005	12/12/2023		X				X
SW-5	23L0901-003	12/12/2023		X				X
SW-6	23L0901-004	12/12/2023		X				X
TRIP BLANK	23L0901-005	12/12/2023		X				

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks					
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

6. The %Rs were below the QC limits in the LCS and LCSD for 2-chloroethylvinyl ether and tetrachloroethylene associated with all samples. 2-Chloroethylvinyl ether and tetrachloroethylene were qualified as an estimated detection limit (UJ) in all samples.

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Standards %R		X		X	
4. Laboratory spike %R		X		X	
5. CRDL standard %R					X
6. Laboratory duplicate RPD		X		X	
7. Matrix spike and matrix spike duplicate %R					X
8. Field duplicate					X

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
The performance was acceptable.

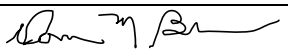
The chloride results for all samples except SW-6 and sulfate in samples SW-2, SW-3 and SW-7 were analyzed at a secondary dilution (D).

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L0901

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOC			
All samples	2-Chloroethylvinyl ether and tetrachloroethylene	UJ/J	The %Rs were below the QC limits in the LCS and LCSD
General Chemistry			
All samples except SW-6	Chloride	D	Analyzed at a secondary dilution
SW-2, SW-3 and SW-7	Sulfate		

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/27/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 14, 2023
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 1 (EN10-M) Field Duplicates/ 0 Trip Blanks / 1 Field Blanks/ 0
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	Volatile Organic Compounds (VOCs): by 624.1 Metals: Total by SW846 Method 6010D or 6020B and Mercury by 245.1 General Chemistry: Hardness (EPA 200.7), Alkalinity (SM2320B), Chloride, Nitrate, and Sulfate, (USEPA 300.0), Total Dissolved Solids (SM 2540C), Bicarbonate (SM 2310B), and Ammonia (SM 22 4500)
Laboratory Report No:	23L1187 Date: 1/25/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, the USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X	X		
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%D - percent difference
RRF - relative response factor
%R - percent recovery
%RSD - percent relative standard deviation
RPD - relative percent difference

Comments:
The performance was acceptable, except the following:

2C. Chloroform was detected in the field blank in data package 23L0806. It was qualified as non-detect (UB) in the sample EN10-M.

6. The %Rs were below the QC limits in the LCS and LCSD for 2-chloroethylvinyl ether and tetrachloroethylene associated with all samples. 2-Chloroethylvinyl ether and tetrachloroethylene were qualified as an estimated detection limit (UJ) in all samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks		X	X		
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X	X		
8. Spike sample %R		X		X	
9. Post digestive spike sample %R		X		X	
10. Duplicate RPD		X		X	
11. Serial dilution check %D		X	X		
12. Field duplicate					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
The performance was acceptable, except the following:

2A. The potassium was detected in the blank sample. Based on sample concentration the B qualifier was removed from sample EN10-M.

2B. Calcium was detected in the field blank in data package 23L0806. Based on sample results qualification of the data was not necessary.

7. Calcium was below QC limit in the LCS and sodium was above QC limits in the LCS. Calcium and sodium were qualified as estimated (J) in sample EN10-M.

11. The %Ds were above the QC limits in the serial dilution for calcium, magnesium, and potassium associated with sample EN10-M and qualified as estimated (J).

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X	X		
3. Standards %R		X		X	
4. Laboratory spike %R		X		X	
5. CRDL standard %R					X
6. Laboratory duplicate RPD		X		X	
7. Matrix spike and matrix spike duplicate %R		X	X		
8. Field duplicate					X

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
The performance was acceptable, except the following:

2B. Chloride, alkalinity, and ammonia were detected in the field blank in data package 23L0806. No qualification of the data was necessary.

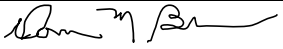
7. The spike %R was below the QC limit for sulfate associated with sample EN10-M and was qualified estimated (J).

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L1187

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOC			
EN10-M	Chloroform	UB	Detected in the field blank in data package 23L0806
All samples	2-Chloroethylvinyl ether and tetrachloroethylene	UJ	The %Rs were below the QC limits in the LCS and LCSD
Metals			
EN10-M	Potassium	B removed	Blank results
EN10-M	Calcium and sodium	J	Outside the QC limit in the LCS
EN10-M	Calcium, magnesium, and potassium	J	The %Ds were above the QC limits in the serial dilution
General Chemistry			
EN10-M	Sulfate	J	The spike %R was below the QC limit

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/27/2024
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	East Northport Landfill
Project Number:	5629 17A
Sample Date(s):	December 14, 2023
Sample Team:	Danial Sassone
Matrix/Number of Samples:	Water/ 1 (EN10-M) Field Duplicates/ 0 Trip Blanks / 0 Field Blanks/ was analyzed in 23L0785
Analyzing Laboratory:	York Analytical Laboratories, Richmond Hills, NY
Analyses:	1,4-Dioxane: by Method 8270D PFAS: by Method 1633
Laboratory Report No:	23L1191 Date: 1/10/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs January 2021; method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

ORGANIC ANALYSES
1,4-Dioxane

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks		X		X	
3. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory control sample (LCS) %R		X		X	
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
The performance was acceptable.

ORGANIC ANALYSES
PFAS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
3. Duplicate (RPD)		X		X	
4. Laboratory control sample (LCS) & LCS Duplicate (LCSD) %R %RPD		X	X		
5. Surrogate spike recoveries		X	X		
6. Instrument performance check					X
7. Internal standard retention times and areas		X		X	
8. Initial calibration RRF's and %RSD's		X	X		
9. Continuing calibration RRF's and %D's		X	X		
10. Transcriptions – quant report vs. Form I		X		X	
11. Field duplicates RPD					X

VOCs - volatile organic compounds %D - percent difference RRF - relative response factor
%R - percent recovery %RSD - percent relative standard deviation RPD - relative percent difference

Comments:
Performance was acceptable, with the following exception:

4. Perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), 3-perfluoropropyl propanoic acid (FPrPA) and perfluoro-5-oxahexanoic acid (PFMBA) %Rs were outside the QC limits %R in the LCS. They were qualified as an estimated limit (UJ) in sample EN10-M.

5. The surrogate %R was above the QC limit for M9PFNA in sample EN10-M. PFAs were detected in the sample and no qualification of the data was necessary.

8. The RSDs were above the for 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS) and 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS) in the initial calibration. They were qualified as estimated (UJ) in sample EN10-M.

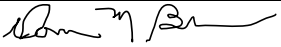
9. The %D was above the QC limit for 3-perfluoroheptyl propanoic acid (FHpPA), 3-perfluoropentyl propanoic acid (FPePA), 9CL-PF3ONS, and N-EtFOSA associated with sample EN10-M. They were not detected in the sample therefore qualification of the data was not necessary.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers: 23L1191

Sample ID	Analyte(s)	Qualifier	Reason(s)
1,4-Dioxane			
No qualification of the data was necessary.			
PFAs			
EN10-M	Perfluoro-n-butanoic acid (PFBA), perfluoro-4-oxapentanoic acid (PFMPA), 3-perfluoropropyl propanoic acid (FPrPA), and perfluoro-5-oxahexanoic acid (PFMBA)	UJ	%Rs were outside the QC limits
EN10-M	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) and 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	UJ	The RSDs were above the initial calibration

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/29/2024
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX H

LABORATORY DATA PACKAGE

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/15/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L0558

Report Date: 12/15/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L0558

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 07, 2023 and listed below. The project was identified as your project: **5629 East Northport Groundwater**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0558-01	CW-1S	Ground Water	12/06/2023	12/07/2023
23L0558-02	CW-1M	Ground Water	12/06/2023	12/07/2023
23L0558-03	CW-2M	Ground Water	12/06/2023	12/07/2023

General Notes for York Project (SDG) No.: 23L0558

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/15/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **CW-1S** **York Sample ID:** **23L0558-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 1:30 pm	12/07/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
108-90-7	**Chlorobenzene**	**1.4**		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:17	SMA

Sample Information

Client Sample ID: CW-1S

York Sample ID: 23L0558-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 1:30 pm	12/07/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:17	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.8 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.3 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.0 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.199**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CW-1S

York Sample ID: 23L0558-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 1:30 pm	12/07/2023

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**48.4**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**192**		mg/L	1.11	1	SM 2340B-2011	12/14/2023 08:31	12/15/2023 18:46	CAM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**25.4**		mg/L	0.278	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**12.8**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**28.3**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**49.8**	M-BS	mg/L	0.556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-1S

York Sample ID: 23L0558-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 1:30 pm	12/07/2023

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**74.9**		ug/L	1.11	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Cadmium by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**65.6**	M-CCV 1	ug/L	1.11	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**52.5**		mg/L	0.690	5.00	10	EPA 300.0	12/15/2023 06:00	12/15/2023 06:00	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0763**		mg/L	0.0500	1	EPA 300.0	12/08/2023 07:44	12/08/2023 07:44	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**39.3**		mg/L	1.00	1	EPA 300.0	12/08/2023 07:44	12/08/2023 07:44	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-1S **York Sample ID:** 23L0558-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 1:30 pm	12/07/2023

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**330**		mg/L	2.0	1	SM 2320B	12/08/2023 07:49	12/08/2023 13:47	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**28.2**		mg/L	0.0500	1	SM 4500-NH3 D	12/11/2023 07:41	12/11/2023 11:45	TCD
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**328**		mg/L	2.00	1	SM 2310B	12/08/2023 07:51	12/08/2023 13:48	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**409**		mg/L	10.0	1	SM 2540C-2015	12/11/2023 22:51	12/11/2023 22:51	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-1M **York Sample ID:** 23L0558-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 2:33 pm	12/07/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **CW-1M** **York Sample ID:** **23L0558-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 2:33 pm	12/07/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 17:46	SMA

Sample Information

Client Sample ID: CW-1M

York Sample ID: 23L0558-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 2:33 pm	12/07/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 17:46	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.6 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.9 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.4 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.107**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**19.5**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CW-1M **York Sample ID:** 23L0558-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 2:33 pm	12/07/2023

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**109**		mg/L	1.11	1	SM 2340B-2011	12/14/2023 08:31	12/15/2023 18:46	CAM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**1.12**		mg/L	0.278	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**12.1**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2.60**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**6.79**	M-BS	mg/L	0.556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: CW-1M

York Sample ID: 23L0558-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 2:33 pm	12/07/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**2.72**	M-CCV 1	ug/L	1.11	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**21.0**		mg/L	0.0690	0.500	1	EPA 300.0	12/08/2023 07:55	12/08/2023 07:55	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0858**		mg/L	0.0500	1	EPA 300.0	12/08/2023 07:55	12/08/2023 07:55	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**53.0**		mg/L	5.00	5	EPA 300.0	12/15/2023 06:10	12/15/2023 06:10	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**52**		mg/L	2.0	1	SM 2320B	12/08/2023 07:49	12/08/2023 13:47	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-1M **York Sample ID:** 23L0558-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 2:33 pm	12/07/2023

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.0587**		mg/L	0.0500	1	SM 4500-NH3 D	12/11/2023 07:41	12/11/2023 11:45	TCD
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**52.0**		mg/L	2.00	1	SM 2310B	12/08/2023 07:51	12/08/2023 13:48	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**184**		mg/L	10.0	1	SM 2540C-2015	12/11/2023 22:51	12/11/2023 22:51	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-2M **York Sample ID:** 23L0558-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 4:05 pm	12/07/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **CW-2M** **York Sample ID:** **23L0558-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 4:05 pm	12/07/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/13/2023 18:14	SMA

Sample Information

Client Sample ID: CW-2M

York Sample ID: 23L0558-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 4:05 pm	12/07/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/13/2023 09:00	12/13/2023 18:14	SMA
							Certifications:			

Surrogate Recoveries	Result	Acceptance Range
17060-07-0 *Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.6 %*	*78-126*
2037-26-5 *Surrogate: SURR: Toluene-d8*	*95.3 %*	*84-117*
460-00-4 *Surrogate: SURR: p-Bromofluorobenzene*	*96.7 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**13.1**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**53.3**		mg/L	1.11	1	SM 2340B-2011	12/14/2023 08:31	12/15/2023 18:46	CAM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Sample Information

Client Sample ID: CW-2M

York Sample ID: 23L0558-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 4:05 pm	12/07/2023

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**3.71**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**3.93**		mg/L	0.0556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**10.9**	M-BS	mg/L	0.556	1	EPA 6010D	12/14/2023 08:27	12/14/2023 16:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:30	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	**Cadmium**	**0.620**		ug/L	0.556	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:30	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	12/14/2023 08:37	12/14/2023 17:30	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: CW-2M **York Sample ID:** 23L0558-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 4:05 pm	12/07/2023

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/11/2023 08:14	12/11/2023 08:14	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**32.3**		mg/L	0.0690	0.500	1	EPA 300.0	12/08/2023 08:05	12/08/2023 08:05	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**4.24**		mg/L	0.0500	1	EPA 300.0	12/08/2023 08:05	12/08/2023 08:05	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**18.3**		mg/L	1.00	1	EPA 300.0	12/08/2023 08:05	12/08/2023 08:05	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**20**		mg/L	2.0	1	SM 2320B	12/08/2023 07:49	12/08/2023 13:47	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.0509**		mg/L	0.0500	1	SM 4500-NH3 D	12/11/2023 07:41	12/11/2023 11:45	TCD
							Certifications:			

Bicarbonate

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CW-2M

York Sample ID: 23L0558-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0558	5629 East Northport Groundwater	Ground Water	December 6, 2023 4:05 pm	12/07/2023

Bicarbonate

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**20.0**		mg/L	2.00	1	SM 2310B	12/08/2023 07:51	12/08/2023 13:48	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**153**		mg/L	10.0	1	SM 2540C-2015	12/11/2023 22:51	12/11/2023 22:51	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Analytical Batch Summary

Batch ID: BL30505 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/08/23
23L0558-02	CW-1M	12/08/23
23L0558-03	CW-2M	12/08/23
BL30505-DUP1	Duplicate	12/08/23
BL30505-SRM1	Reference	12/08/23

Batch ID: BL30506 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/08/23
23L0558-02	CW-1M	12/08/23
23L0558-03	CW-2M	12/08/23
BL30506-BLK1	Blank	12/08/23
BL30506-DUP1	Duplicate	12/08/23

Batch ID: BL30562 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/08/23
23L0558-02	CW-1M	12/08/23
23L0558-03	CW-2M	12/08/23
BL30562-BLK1	Blank	12/08/23
BL30562-BS1	LCS	12/08/23
BL30562-DUP1	Duplicate	12/08/23
BL30562-DUP2	Duplicate	12/08/23
BL30562-MS1	Matrix Spike	12/08/23
BL30562-MS2	Matrix Spike	12/08/23
BL30562-MSD1	Matrix Spike Dup	12/08/23
BL30562-MSD2	Matrix Spike Dup	12/08/23

Batch ID: BL30630 **Preparation Method:** Analysis Preparation **Prepared By:** TCD

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/11/23
23L0558-02	CW-1M	12/11/23
23L0558-03	CW-2M	12/11/23
BL30630-BLK1	Blank	12/11/23
BL30630-BS1	LCS	12/11/23
BL30630-DUP1	Duplicate	12/11/23
BL30630-MS1	Matrix Spike	12/11/23
BL30630-MSD1	Matrix Spike Dup	12/11/23

Batch ID: BL30648 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-03	CW-2M	12/11/23
BL30648-BLK1	Blank	12/11/23
BL30648-BLK2	Blank	12/11/23
BL30648-BS1	LCS	12/11/23
BL30648-BS2	LCS	12/11/23

Batch ID: BL30713 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/11/23
23L0558-02	CW-1M	12/11/23
23L0558-03	CW-2M	12/11/23
BL30713-BLK1	Blank	12/11/23
BL30713-DUP1	Duplicate	12/11/23
BL30713-DUP2	Duplicate	12/11/23

Batch ID: BL30827 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/13/23
23L0558-02	CW-1M	12/13/23
BL30827-BLK1	Blank	12/13/23
BL30827-BS1	LCS	12/13/23
BL30827-DUP1	Duplicate	12/13/23
BL30827-MS1	Matrix Spike	12/13/23
BL30827-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30850 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/13/23
23L0558-02	CW-1M	12/13/23
23L0558-03	CW-2M	12/13/23
BL30850-BLK1	Blank	12/13/23
BL30850-BS1	LCS	12/13/23
BL30850-BSD1	LCS Dup	12/13/23

Batch ID: BL30939 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/14/23
23L0558-02	CW-1M	12/14/23
23L0558-03	CW-2M	12/14/23
BL30939-BLK1	Blank	12/14/23
BL30939-BS1	LCS	12/14/23
BL30939-DUP1	Duplicate	12/14/23

BL30939-MS1	Matrix Spike	12/14/23
BL30939-PS1	Post Spike	12/14/23

Batch ID: BL30941 **Preparation Method:** EPA 200.7 **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/14/23
23L0558-02	CW-1M	12/14/23
23L0558-03	CW-2M	12/14/23

Batch ID: BL30943 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/14/23
23L0558-02	CW-1M	12/14/23
23L0558-03	CW-2M	12/14/23
BL30943-BLK1	Blank	12/14/23
BL30943-BS1	LCS	12/14/23
BL30943-DUP1	Duplicate	12/14/23
BL30943-MS1	Matrix Spike	12/14/23

Batch ID: BL31066 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0558-01	CW-1S	12/15/23
23L0558-02	CW-1M	12/15/23
BL31066-BLK1	Blank	12/15/23
BL31066-BS1	LCS	12/15/23
BL31066-DUP1	Duplicate	12/15/23
BL31066-DUP2	Duplicate	12/15/23
BL31066-MS1	Matrix Spike	12/15/23
BL31066-MS2	Matrix Spike	12/15/23
BL31066-MSD1	Matrix Spike Dup	12/15/23
BL31066-MSD2	Matrix Spike Dup	12/15/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30850 - EPA 5030B											
Blank (BL30850-BLK1)											Prepared & Analyzed: 12/13/2023
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.54*		*"*	*10.0*		*95.4*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30850 - EPA 5030B											
LCS (BL30850-BS1)								Prepared & Analyzed: 12/13/2023			
1,1,1-Trichloroethane	9.97		ug/L	10.0		99.7	75-125				
1,1,2,2-Tetrachloroethane	9.05		"	10.0		90.5	60-140				
1,1,2-Trichloroethane	8.72		"	10.0		87.2	71-129				
1,1-Dichloroethane	9.29		"	10.0		92.9	72-128				
1,1-Dichloroethylene	10.1		"	10.0		101	50-150				
1,2-Dichlorobenzene	9.11		"	10.0		91.1	63-137				
1,2-Dichloroethane	9.32		"	10.0		93.2	68-132				
1,2-Dichloropropane	8.60		"	10.0		86.0	34-166				
1,3-Dichlorobenzene	8.98		"	10.0		89.8	73-127				
1,4-Dichlorobenzene	8.84		"	10.0		88.4	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	10.4		"	10.0		104	64-136				
Bromodichloromethane	8.74		"	10.0		87.4	65-135				
Bromoform	8.69		"	10.0		86.9	71-129				
Bromomethane	5.17		"	10.0		51.7	14-186				
Carbon tetrachloride	10.3		"	10.0		103	73-127				
Chlorobenzene	9.40		"	10.0		94.0	66-134				
Chloroethane	11.7		"	10.0		117	38-162				
Chloroform	9.99		"	10.0		99.9	67-133				
Chloromethane	9.88		"	10.0		98.8	0.5-204				
cis-1,2-Dichloroethylene	9.42		"	10.0		94.2	70-130				
cis-1,3-Dichloropropylene	8.32		"	10.0		83.2	24-176				
Dibromochloromethane	8.92		"	10.0		89.2	67-133				
Ethyl Benzene	9.60		"	10.0		96.0	59-141				
Methylene chloride	9.01		"	10.0		90.1	60-140				
o-Xylene	8.95		"	10.0		89.5	70-130				
p- & m- Xylenes	16.3		"	20.0		81.6	70-130				
Tetrachloroethylene	7.23		"	10.0		72.3	73-127	Low Bias			
Toluene	9.59		"	10.0		95.9	74-126				
trans-1,2-Dichloroethylene	9.59		"	10.0		95.9	69-131				
trans-1,3-Dichloropropylene	8.24		"	10.0		82.4	50-150				
Trichloroethylene	9.12		"	10.0		91.2	66-134				
Trichlorofluoromethane	12.2		"	10.0		122	48-152				
Vinyl Chloride	11.3		"	10.0		113	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.56*		*"*	*10.0*		*95.6*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30850 - EPA 5030B											
LCS Dup (BL30850-BSD1)								Prepared & Analyzed: 12/13/2023			
1,1,1-Trichloroethane	9.65		ug/L	10.0		96.5	75-125		3.26	30	
1,1,2,2-Tetrachloroethane	9.10		"	10.0		91.0	60-140		0.551	30	
1,1,2-Trichloroethane	8.84		"	10.0		88.4	71-129		1.37	30	
1,1-Dichloroethane	9.14		"	10.0		91.4	72-128		1.63	30	
1,1-Dichloroethylene	9.60		"	10.0		96.0	50-150		5.08	30	
1,2-Dichlorobenzene	9.01		"	10.0		90.1	63-137		1.10	30	
1,2-Dichloroethane	9.32		"	10.0		93.2	68-132		0.00	30	
1,2-Dichloropropane	8.40		"	10.0		84.0	34-166		2.35	30	
1,3-Dichlorobenzene	8.75		"	10.0		87.5	73-127		2.59	30	
1,4-Dichlorobenzene	8.65		"	10.0		86.5	63-137		2.17	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	10.0		"	10.0		100	64-136		2.94	30	
Bromodichloromethane	8.62		"	10.0		86.2	65-135		1.38	30	
Bromoform	8.75		"	10.0		87.5	71-129		0.688	30	
Bromomethane	5.96		"	10.0		59.6	14-186		14.2	30	
Carbon tetrachloride	9.85		"	10.0		98.5	73-127		4.37	30	
Chlorobenzene	9.21		"	10.0		92.1	66-134		2.04	30	
Chloroethane	11.2		"	10.0		112	38-162		4.45	30	
Chloroform	9.88		"	10.0		98.8	67-133		1.11	30	
Chloromethane	9.45		"	10.0		94.5	0.5-204		4.45	30	
cis-1,2-Dichloroethylene	9.17		"	10.0		91.7	70-130		2.69	30	
cis-1,3-Dichloropropylene	8.20		"	10.0		82.0	24-176		1.45	30	
Dibromochloromethane	8.93		"	10.0		89.3	67-133		0.112	30	
Ethyl Benzene	9.33		"	10.0		93.3	59-141		2.85	30	
Methylene chloride	8.96		"	10.0		89.6	60-140		0.556	30	
o-Xylene	8.86		"	10.0		88.6	70-130		1.01	30	
p- & m- Xylenes	15.9		"	20.0		79.6	70-130		2.42	30	
Tetrachloroethylene	6.99		"	10.0		69.9	73-127	Low Bias	3.38	30	
Toluene	9.28		"	10.0		92.8	74-126		3.29	30	
trans-1,2-Dichloroethylene	9.20		"	10.0		92.0	69-131		4.15	30	
trans-1,3-Dichloropropylene	8.27		"	10.0		82.7	50-150		0.363	30	
Trichloroethylene	8.85		"	10.0		88.5	66-134		3.01	30	
Trichlorofluoromethane	11.6		"	10.0		116	48-152		4.70	30	
Vinyl Chloride	10.7		"	10.0		107	4-196		5.65	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.74*		*"*	*10.0*		*97.4*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.52*		*"*	*10.0*		*95.2*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.46*		*"*	*10.0*		*94.6*	*71-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30939 - EPA 3015A											
Blank (BL30939-BLK1)								Prepared & Analyzed: 12/14/2023			
Aluminum	ND	0.0556	mg/L								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Iron	ND	0.278	"								
Magnesium	ND	0.0556	"								
Potassium	ND	0.0556	"								
Sodium	ND	0.556	"								
LCS (BL30939-BS1)								Prepared & Analyzed: 12/14/2023			
Aluminum	1.82		ug/mL	2.00		90.9	80-120				
Calcium	1.08		"	1.00		108	80-120				
Chromium	0.190		"	0.200		94.9	80-120				
Iron	0.958		"	1.00		95.8	80-120				
Magnesium	0.900		"	1.00		90.0	80-120				
Potassium	0.956		"	1.00		95.6	80-120				
Sodium	1.73		"	1.00		173	80-120	High Bias			
Duplicate (BL30939-DUP1)	*Source sample: 23L0965-03 (Duplicate)							Prepared & Analyzed: 12/14/2023			
Aluminum	0.298	0.0556	mg/L		0.334				11.5	20	
Calcium	122	0.0556	"		122				0.167	20	
Chromium	ND	0.00556	"		ND					20	
Iron	0.350	0.278	"		0.362				3.62	20	
Magnesium	27.7	0.0556	"		27.9				0.620	20	
Potassium	4.78	0.0556	"		4.80				0.545	20	
Sodium	102	0.556	"		102				0.546	20	
Matrix Spike (BL30939-MS1)	*Source sample: 23L0965-03 (Matrix Spike)							Prepared & Analyzed: 12/14/2023			
Aluminum	2.37	0.0556	mg/L	2.22	0.334	91.8	75-125				
Chromium	0.215	0.00556	"	0.222	ND	96.6	75-125				
Iron	1.40	0.278	"	1.11	0.362	93.2	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30939 - EPA 3015A											
Post Spike (BL30939-PS1)	*Source sample: 23L0965-03 (Post Spike)							Prepared & Analyzed: 12/14/2023			
Aluminum	2.13		ug/mL	2.00	0.301	91.5	75-125				
Calcium	110		"	1.00	110	NR	75-125	Low Bias			
Chromium	0.190		"	0.200	0.00291	93.5	75-125				
Iron	1.24		"	1.00	0.326	91.0	75-125				
Magnesium	25.9		"	1.00	25.1	84.8	75-125				
Potassium	5.33		"	1.00	4.32	101	75-125				
Sodium	93.6		"	1.00	91.9	172	75-125	High Bias			

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30943 - EPA 3015A											
Blank (BL30943-BLK1)								Prepared & Analyzed: 12/14/2023			
Arsenic	ND	1.11	ug/L								
Cadmium	ND	0.556	"								
Lead	ND	1.11	"								
LCS (BL30943-BS1)								Prepared & Analyzed: 12/14/2023			
Arsenic	49.5		ug/L	50.0		98.9	80-120				
Cadmium	46.9		"	50.0		93.7	80-120				
Lead	53.3		"	50.0		107	80-120				
Duplicate (BL30943-DUP1)	*Source sample: 23L0564-01 (Duplicate)							Prepared & Analyzed: 12/14/2023			
Arsenic	19.8	1.11	ug/L		18.8				5.67	20	
Cadmium	9.49	0.556	"		9.56				0.778	20	
Lead	3090	1.11	"		3140				1.73	20	
Matrix Spike (BL30943-MS1)	*Source sample: 23L0564-01 (Matrix Spike)							Prepared & Analyzed: 12/14/2023			
Arsenic	67.4		ug/L	50.0	16.9	101	75-125				
Cadmium	55.7		"	50.0	8.61	94.1	75-125				
Lead	2840		"	50.0	2830	13.8	75-125	Low Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30648 - EPA 245.1 Mercury											
Blank (BL30648-BLK1)								Prepared & Analyzed: 12/11/2023			
Mercury	ND	0.0002000	mg/L								
Blank (BL30648-BLK2)								Prepared & Analyzed: 12/11/2023			
Mercury	ND	0.0002000	mg/L								
LCS (BL30648-BS1)								Prepared & Analyzed: 12/11/2023			
Mercury	0.002202	0.0002000	mg/L	0.00200		110	75-125				
LCS (BL30648-BS2)								Prepared & Analyzed: 12/11/2023			
Mercury	0.001975	0.0002000	mg/L	0.00200		98.7	75-125				
Batch BL30827 - EPA 245.1 Mercury											
Blank (BL30827-BLK1)								Prepared & Analyzed: 12/13/2023			
Mercury	ND	0.0002000	mg/L								
LCS (BL30827-BS1)								Prepared & Analyzed: 12/13/2023			
Mercury	0.002060	0.0002000	mg/L	0.00200		103	75-125				
Duplicate (BL30827-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Mercury	ND	0.0002000	mg/L		ND					20	
Matrix Spike (BL30827-MS1)	*Source sample: 23L0644-01 (Matrix Spike)							Prepared & Analyzed: 12/13/2023			
Mercury	0.002435	0.0002000	mg/L	0.00200	ND	122	75-125				
Matrix Spike Dup (BL30827-MSD1)	*Source sample: 23L0644-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/13/2023			
Mercury	0.002341	0.0002000	mg/L	0.00200	ND	117	75-125		3.94	20	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30562 - EPA 300											
Blank (BL30562-BLK1)								Prepared & Analyzed: 12/08/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL30562-BS1)								Prepared & Analyzed: 12/08/2023			
Chloride	9.89	0.500	mg/L	10.0		98.9	90-110				
Nitrate as N	10.5	0.0500	"	10.0		105	90-110				
Sulfate	10.6	1.00	"	10.0		106	85-115				
Duplicate (BL30562-DUP1)	*Source sample: 23L0521-01 (Duplicate)							Prepared & Analyzed: 12/08/2023			
Chloride	49.4	0.500	mg/L		49.7				0.465	15	
Nitrate as N	7.22	0.0500	"		7.26				0.443	15	
Sulfate	29.0	1.00	"		29.7				2.56	15	
Duplicate (BL30562-DUP2)	*Source sample: 23L0521-02 (Duplicate)							Prepared & Analyzed: 12/08/2023			
Chloride	48.9	0.500	mg/L		49.1				0.576	15	
Nitrate as N	14.0	0.0500	"		14.3				1.76	15	
Sulfate	25.3	1.00	"		25.7				1.51	15	
Matrix Spike (BL30562-MS1)	*Source sample: 23L0521-01 (Matrix Spike)							Prepared & Analyzed: 12/08/2023			
Chloride	49.2	0.500	mg/L	10.0	49.7	NR	85-115	Low Bias			
Nitrate as N	17.1	0.0500	"	10.0	7.26	98.4	90-110				
Sulfate	34.8	1.00	"	10.0	29.7	50.9	85-115	Low Bias			
Matrix Spike (BL30562-MS2)	*Source sample: 23L0521-02 (Matrix Spike)							Prepared & Analyzed: 12/08/2023			
Chloride	51.5	0.500	mg/L	10.0	49.1	23.6	85-115	Low Bias			
Nitrate as N	23.6	0.0500	"	10.0	14.3	93.7	90-110				
Sulfate	31.8	1.00	"	10.0	25.7	61.2	85-115	Low Bias			

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30562 - EPA 300											
Matrix Spike Dup (BL30562-MSD1)	*Source sample: 23L0521-01 (Matrix Spike Dup)								Prepared & Analyzed: 12/08/2023		
Chloride	48.8	0.500	mg/L	10.0	49.7	NR	85-115	Low Bias	0.895	20	
Nitrate as N	17.0	0.0500	"	10.0	7.26	97.6	90-110		0.448	200	
Sulfate	34.9	1.00	"	10.0	29.7	52.0	85-115	Low Bias	0.306	20	
Matrix Spike Dup (BL30562-MSD2)	*Source sample: 23L0521-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/08/2023		
Chloride	51.6	0.500	mg/L	10.0	49.1	24.6	85-115	Low Bias	0.201	20	
Nitrate as N	23.7	0.0500	"	10.0	14.3	94.6	90-110		0.395	200	
Sulfate	31.7	1.00	"	10.0	25.7	59.6	85-115	Low Bias	0.483	20	
Batch BL31066 - EPA 300											
Blank (BL31066-BLK1)									Prepared & Analyzed: 12/15/2023		
Chloride	ND	0.500	mg/L								
Sulfate	ND	1.00	"								
LCS (BL31066-BS1)									Prepared & Analyzed: 12/15/2023		
Chloride	9.60	0.500	mg/L	10.0		96.0	90-110				
Sulfate	9.68	1.00	"	10.0		96.8	85-115				
Duplicate (BL31066-DUP1)	*Source sample: 23L1054-01 (Duplicate)								Prepared & Analyzed: 12/15/2023		
Chloride	50.5	0.500	mg/L		50.3				0.519	15	
Sulfate	21.2	1.00	"		20.9				1.79	15	
Duplicate (BL31066-DUP2)	*Source sample: 23L1049-01 (Duplicate)								Prepared & Analyzed: 12/15/2023		
Chloride	48.8	0.500	mg/L		49.2				0.735	15	
Sulfate	19.5	1.00	"		19.1				1.85	15	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31066 - EPA 300											
Matrix Spike (BL31066-MS1)	*Source sample: 23L1054-01 (Matrix Spike)							Prepared & Analyzed: 12/15/2023			
Chloride	51.6	0.500	mg/L	10.0	50.3	13.6	85-115	Low Bias			
Sulfate	30.3	1.00	"	10.0	20.9	94.2	85-115				
Matrix Spike (BL31066-MS2)	*Source sample: 23L1049-01 (Matrix Spike)							Prepared & Analyzed: 12/15/2023			
Chloride	50.5	0.500	mg/L	10.0	49.2	13.7	85-115	Low Bias			
Sulfate	27.7	1.00	"	10.0	19.1	85.9	85-115				
Matrix Spike Dup (BL31066-MSD1)	*Source sample: 23L1054-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/15/2023			
Chloride	51.9	0.500	mg/L	10.0	50.3	16.2	85-115	Low Bias	0.517	20	
Sulfate	29.9	1.00	"	10.0	20.9	90.0	85-115		1.42	20	
Matrix Spike Dup (BL31066-MSD2)	*Source sample: 23L1049-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/15/2023			
Chloride	50.6	0.500	mg/L	10.0	49.2	14.1	85-115	Low Bias	0.0724	20	
Sulfate	27.5	1.00	"	10.0	19.1	84.0	85-115	Low Bias	0.711	20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30505 - Analysis Preparation											
Duplicate (BL30505-DUP1)	*Source sample: 23L0558-03 (CW-2M)							Prepared & Analyzed: 12/08/2023			
Alkalinity, total	20	2.0	mg/L		20				0.00	15	
Reference (BL30505-SRM1)								Prepared & Analyzed: 12/08/2023			
Alkalinity, total	76		mg/L	77.2		98.4	90-110				
Batch BL30506 - Analysis Preparation											
Blank (BL30506-BLK1)								Prepared & Analyzed: 12/08/2023			
Bicarbonate	ND	2.00	mg/L								
Duplicate (BL30506-DUP1)	*Source sample: 23L0558-03 (CW-2M)							Prepared & Analyzed: 12/08/2023			
Bicarbonate	20.0	2.00	mg/L		20.0				0.00	15	
Batch BL30630 - Analysis Preparation											
Blank (BL30630-BLK1)								Prepared & Analyzed: 12/11/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L								
LCS (BL30630-BS1)								Prepared & Analyzed: 12/11/2023			
Ammonia Nitrogen as NH3	0.862	0.0500	mg/L				85-125				
Duplicate (BL30630-DUP1)	*Source sample: 23L0558-01 (CW-1S)							Prepared & Analyzed: 12/11/2023			
Ammonia Nitrogen as NH3	27.8	0.0500	mg/L		28.2				1.29	15	
Matrix Spike (BL30630-MS1)	*Source sample: 23L0558-01 (CW-1S)							Prepared & Analyzed: 12/11/2023			
Ammonia Nitrogen as NH3	40.7	0.0500	mg/L		28.2		80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30630 - Analysis Preparation											
Matrix Spike Dup (BL30630-MSD1)	*Source sample: 23L0558-01 (CW-1S)							Prepared & Analyzed: 12/11/2023			
Ammonia Nitrogen as NH3	40.0	0.0500	mg/L		28.2		80-120		1.81	200	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30713 - % Solids Prep											
Blank (BL30713-BLK1)								Prepared & Analyzed: 12/11/2023			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BL30713-DUP1)	*Source sample: 23L0364-01 (Duplicate)							Prepared & Analyzed: 12/11/2023			
Total Dissolved Solids	150	10.0	mg/L		154				2.63	15	
Duplicate (BL30713-DUP2)	*Source sample: 23L0618-07 (Duplicate)							Prepared & Analyzed: 12/11/2023			
Total Dissolved Solids	1360	10.0	mg/L		1340				0.890	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23L0558-01	CW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0558-02	CW-1M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0558-03	CW-2M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L0558

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: DTB Engineers + Architects	Company: Same	Company: Same
Address: 330 Crossways Park Dr. Woodbury, NY, 11797	Address: "	Address: "
Phone.: 516-364-9890	Phone.: "	Phone.: "
Contact: Keith Robins	Contact: Keith Robins	Contact: "
E-mail: KRobins@db-eng.com	E-mail: KRobins@db-eng.com	E-mail: "

YOUR Project Number: 5629

YOUR Project Name: East North Port Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sossa

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; QA Report; CMDP; Standard Excel EDD; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; Other:_____; EQuIS (Standard); NYSDEC EQuIS; NJDKQP; NJDEP SRP HazSite

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
CW-1S	GW	12/6/23 1:30	Volatile Organics, metals and	3 40ml V. al, 2 1L Plastic, 2 250ml	7
CW-1M	↓	12/6/23 2:33	hardness, ALK, Bicarb ALK, TDS,	↓	↓
CW-2M	↓	12/6/23 4:05	NO2, NH3, NO3, Cadmium,		
			Arsenic, Chromium, aluminum,		
			Calcium, Iron, Lead, Magnesium,		
			Mercury, Potassium, Sodium		
			Alkalinity/Bicarbonate, ammonium,		
			Nitrate, Chloride, TDS, Hardness		
			Sulfate		

Comments: Analyses is Same for all 4 Samples, Provide Category "B" and EQuIS Send data to labdata@db-eng.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Daniel Sossa/DTB	12/7/23	Ramon York	12/7/23 1455	Ramon York	12/7/23
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time: 12/7/23 20:00 Temperature: 3.9 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/18/2023
Client Project ID: 5269 East Northport Groundwater Sampling
York Project (SDG) No.: 23L0639

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/18/2023
Client Project ID: 5269 East Northport Groundwater Sampling
York Project (SDG) No.: 23L0639

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 08, 2023 and listed below. The project was identified as your project: **5269 East Northport Groundwater Sampling**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0639-01	CW-4M	Ground Water	12/07/2023	12/08/2023
23L0639-02	CW-4S	Ground Water	12/07/2023	12/08/2023
23L0639-03	EN-6S	Ground Water	12/07/2023	12/08/2023
23L0639-04	EN-6M	Ground Water	12/07/2023	12/08/2023
23L0639-05	EN-9M	Ground Water	12/07/2023	12/08/2023
23L0639-06	Trip Blank	Water	12/07/2023	12/08/2023

General Notes for York Project (SDG) No.: 23L0639

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/18/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **CW-4M** **York Sample ID:** **23L0639-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 9:15 am	12/08/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
110-75-8	2-Chloroethylvinyl ether	ND	QL-02	ug/L	20	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-66-3	**Chloroform**	**0.75**		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 12:51	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: CW-4M

York Sample ID: 23L0639-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 9:15 am	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 12:51	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00	12/14/2023 12:51	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.7 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*91.4 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications:	12/15/2023 08:50 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/15/2023 16:51	CEG

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: CW-4M

York Sample ID: 23L0639-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 9:15 am	12/08/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**24.3**	B	mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**98.0**		mg/L	1.11	1	SM 2340B-2011	12/15/2023 09:03	12/15/2023 16:51	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**9.05**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1.44**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**12.4**	M-BS	mg/L	0.556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: CW-4M **York Sample ID:** 23L0639-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 9:15 am	12/08/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.62**		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**38.3**		mg/L	0.0690	0.500	1	EPA 300.0	12/08/2023 22:50	12/08/2023 22:50	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**6.12**		mg/L	0.0500	1	EPA 300.0	12/08/2023 22:50	12/08/2023 22:50	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**25.8**		mg/L	1.00	1	EPA 300.0	12/08/2023 22:50	12/08/2023 22:50	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-4M **York Sample ID:** 23L0639-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 9:15 am	12/08/2023

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**52**		mg/L	2.0	1	SM 2320B	12/11/2023 08:07	12/11/2023 14:26	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as NH3	ND		mg/L	0.0500	1	SM 4500-NH3 D	12/12/2023 17:28	12/13/2023 20:41	NJO
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**52.0**		mg/L	2.00	1	SM 2310B	12/11/2023 08:09	12/11/2023 14:27	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**206**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-4S **York Sample ID:** 23L0639-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 10:45 am	12/08/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: CW-4S

York Sample ID: 23L0639-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 10:45 am	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
110-75-8	2-Chloroethylvinyl ether	ND	QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:17	SMA

Sample Information

Client Sample ID: CW-4S **York Sample ID:** 23L0639-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 10:45 am	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:17	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.0 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.4 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2.46**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**19.7**	B	mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CW-4S **York Sample ID:** 23L0639-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 10:45 am	12/08/2023

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.0156**		mg/L	0.00556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**77.9**		mg/L	1.11	1	SM 2340B-2011	12/15/2023 09:03	12/15/2023 16:54	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**7.64**		mg/L	0.278	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**6.97**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4.00**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**11.6**	M-BS	mg/L	0.556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: CW-4S **York Sample ID:** 23L0639-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 10:45 am	12/08/2023

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	**Cadmium**	**31.3**		ug/L	0.556	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Lead by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**49.0**		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**35.0**		mg/L	0.0690	0.500	1	EPA 300.0	12/08/2023 23:32	12/08/2023 23:32	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**3.95**		mg/L	0.0500	1	EPA 300.0	12/08/2023 23:32	12/08/2023 23:32	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**18.7**		mg/L	1.00	1	EPA 300.0	12/08/2023 23:32	12/08/2023 23:32	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CW-4S **York Sample ID:** 23L0639-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 10:45 am	12/08/2023

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**32**		mg/L	2.0	1	SM 2320B	12/11/2023 08:07	12/11/2023 14:26	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.171**		mg/L	0.0500	1	SM 4500-NH3 D	12/12/2023 17:28	12/13/2023 20:41	NJO
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**32.0**		mg/L	2.00	1	SM 2310B	12/11/2023 08:09	12/11/2023 14:27	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**157**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN-6S **York Sample ID:** 23L0639-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 1:20 pm	12/08/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:44	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:44	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 13:44	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **EN-6S** **York Sample ID:** **23L0639-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 1:20 pm	12/08/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
110-75-8	2-Chloroethylvinyl ether	ND	QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
67-66-3	**Chloroform**	**0.72**		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA

Sample Information

Client Sample ID: EN-6S **York Sample ID:** 23L0639-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 1:20 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 13:44	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00	12/14/2023 13:44	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.7 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.2 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications:	12/15/2023 08:50 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/15/2023 16:56	CEG

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**15.6**	B	mg/L	0.0556	1	EPA 6010D Certifications:	12/15/2023 08:50 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/15/2023 16:56	CEG

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **EN-6S** **York Sample ID:** **23L0639-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 1:20 pm	12/08/2023

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**66.9**		mg/L	1.11	1	SM 2340B-2011	12/15/2023 09:03	12/15/2023 16:56	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**6.78**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2.73**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**30.0**	M-BS	mg/L	0.556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:56	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: EN-6S **York Sample ID:** 23L0639-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 1:20 pm	12/08/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 13:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**63.9**		mg/L	0.690	5.00	10	EPA 300.0	12/12/2023 06:21	12/12/2023 06:21	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**6.25**		mg/L	0.0500	1	EPA 300.0	12/09/2023 00:33	12/09/2023 00:33	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**23.6**		mg/L	1.00	1	EPA 300.0	12/09/2023 00:33	12/09/2023 00:33	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**20**		mg/L	2.0	1	SM 2320B	12/11/2023 08:07	12/11/2023 14:26	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN-6S **York Sample ID:** 23L0639-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 1:20 pm	12/08/2023

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as NH3	ND		mg/L	0.0500	1	SM 4500-NH3 D	12/12/2023 17:28	12/13/2023 20:41	NJO
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**20.0**		mg/L	2.00	1	SM 2310B	12/11/2023 08:09	12/11/2023 14:27	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**221**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN-6M **York Sample ID:** 23L0639-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 2:35 pm	12/08/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **EN-6M** **York Sample ID:** **23L0639-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 2:35 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
110-75-8	2-Chloroethylvinyl ether	ND	QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
127-18-4	**Tetrachloroethylene**	**0.64**	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:10	SMA

Sample Information

Client Sample ID: EN-6M **York Sample ID:** 23L0639-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 2:35 pm	12/08/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:10	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.0 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*90.7 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**29.9**	B	mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**113**		mg/L	1.11	1	SM 2340B-2011	12/15/2023 09:03	12/15/2023 16:59	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Sample Information

Client Sample ID: **EN-6M** **York Sample ID:** **23L0639-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 2:35 pm	12/08/2023

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**9.27**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2.72**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**38.0**	M-BS	mg/L	0.556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 16:59	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Lead by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN-6M **York Sample ID:** 23L0639-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 2:35 pm	12/08/2023

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**90.4**		mg/L	0.690	5.00	10	EPA 300.0	12/12/2023 06:31	12/12/2023 06:31	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**3.91**		mg/L	0.0500	1	EPA 300.0	12/09/2023 01:37	12/09/2023 01:37	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**24.1**		mg/L	1.00	1	EPA 300.0	12/09/2023 01:37	12/09/2023 01:37	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**51**		mg/L	2.0	1	SM 2320B	12/11/2023 08:07	12/11/2023 14:26	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as NH3	ND		mg/L	0.0500	1	SM 4500-NH3 D	12/12/2023 17:28	12/13/2023 20:41	NJO
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**51.0**		mg/L	2.00	1	SM 2310B	12/11/2023 08:09	12/11/2023 14:27	VR
							Certifications:			

Sample Information

Client Sample ID: **EN-6M** **York Sample ID:** **23L0639-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 2:35 pm	12/08/2023

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**302**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **EN-9M** **York Sample ID:** **23L0639-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 3:55 pm	12/08/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
110-75-8	2-Chloroethylvinyl ether	ND	QL-02	ug/L	20	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:37	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **EN-9M** **York Sample ID:** **23L0639-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 3:55 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:37	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00	12/14/2023 14:37	SMA

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **EN-9M** **York Sample ID:** **23L0639-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 3:55 pm	12/08/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*			*78-126*					
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.2 %*			*84-117*					
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*91.8 %*			*71-130*					

Aluminum by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**31.0**	B	mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**145**		mg/L	1.11	1	SM 2340B-2011	12/15/2023 09:03	12/15/2023 17:02	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **EN-9M** **York Sample ID:** **23L0639-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 3:55 pm	12/08/2023

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**16.4**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2.58**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**76.8**	M-BS	mg/L	0.556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: EN-9M **York Sample ID:** 23L0639-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 3:55 pm	12/08/2023

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**229**		mg/L	0.690	5.00	10	EPA 300.0	12/16/2023 03:06	12/16/2023 03:06	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**1.37**		mg/L	0.0500	1	EPA 300.0	12/09/2023 03:09	12/09/2023 03:09	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**16.5**		mg/L	1.00	1	EPA 300.0	12/09/2023 03:09	12/09/2023 03:09	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**34**		mg/L	2.0	1	SM 2320B	12/11/2023 08:07	12/11/2023 14:26	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as NH3	ND		mg/L	0.0500	1	SM 4500-NH3 D	12/12/2023 17:28	12/13/2023 20:41	NJO
							Certifications:			

Bicarbonate

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**34.0**		mg/L	2.00	1	SM 2310B	12/11/2023 08:09	12/11/2023 14:27	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **EN-9M** **York Sample ID:** **23L0639-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Ground Water	December 7, 2023 3:55 pm	12/08/2023

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**481**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0639-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Water	December 7, 2023 4:00 pm	12/08/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
110-75-8	2-Chloroethylvinyl ether	ND	QL-02	ug/L	20	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 17:16	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0639-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Water	December 7, 2023 4:00 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 17:16	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00	12/14/2023 17:16	SMA

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0639-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0639	5269 East Northport Groundwater Sampling	Water	December 7, 2023 4:00 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*			*78-126*					
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.3 %*			*84-117*					
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.1 %*			*71-130*					

Analytical Batch Summary

Batch ID: BL30644 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/11/23
23L0639-02	CW-4S	12/11/23
23L0639-03	EN-6S	12/11/23
23L0639-04	EN-6M	12/11/23
23L0639-05	EN-9M	12/11/23
BL30644-DUP1	Duplicate	12/11/23
BL30644-SRM1	Reference	12/11/23

Batch ID: BL30645 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/11/23
23L0639-02	CW-4S	12/11/23
23L0639-03	EN-6S	12/11/23
23L0639-04	EN-6M	12/11/23
23L0639-05	EN-9M	12/11/23
BL30645-BLK1	Blank	12/11/23
BL30645-DUP1	Duplicate	12/11/23

Batch ID: BL30698 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/08/23
23L0639-02	CW-4S	12/08/23
23L0639-03	EN-6S	12/09/23
23L0639-04	EN-6M	12/09/23
BL30698-BLK1	Blank	12/08/23
BL30698-BS1	LCS	12/08/23
BL30698-DUP1	Duplicate	12/08/23
BL30698-DUP2	Duplicate	12/08/23
BL30698-MS1	Matrix Spike	12/08/23
BL30698-MS2	Matrix Spike	12/08/23
BL30698-MSD1	Matrix Spike Dup	12/08/23
BL30698-MSD2	Matrix Spike Dup	12/08/23

Batch ID: BL30699 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-05	EN-9M	12/09/23
BL30699-BLK1	Blank	12/09/23
BL30699-BS1	LCS	12/09/23
BL30699-DUP1	Duplicate	12/09/23
BL30699-DUP2	Duplicate	12/09/23
BL30699-MS1	Matrix Spike	12/09/23

BL30699-MSD1	Matrix Spike Dup	12/09/23

Batch ID: BL30795 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-03	EN-6S	12/12/23
23L0639-04	EN-6M	12/12/23
BL30795-BLK1	Blank	12/12/23
BL30795-BS1	LCS	12/12/23
BL30795-DUP1	Duplicate	12/12/23
BL30795-DUP2	Duplicate	12/12/23
BL30795-MS1	Matrix Spike	12/12/23
BL30795-MS2	Matrix Spike	12/12/23
BL30795-MSD1	Matrix Spike Dup	12/12/23
BL30795-MSD2	Matrix Spike Dup	12/12/23

Batch ID: BL30802 **Preparation Method:** Analysis Preparation **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/12/23
23L0639-02	CW-4S	12/12/23
23L0639-03	EN-6S	12/12/23
23L0639-04	EN-6M	12/12/23
23L0639-05	EN-9M	12/12/23
BL30802-BLK1	Blank	12/12/23
BL30802-BS1	LCS	12/12/23
BL30802-DUP1	Duplicate	12/12/23
BL30802-MS1	Matrix Spike	12/12/23
BL30802-MSD1	Matrix Spike Dup	12/12/23

Batch ID: BL30827 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/13/23
23L0639-02	CW-4S	12/13/23
23L0639-03	EN-6S	12/13/23
23L0639-04	EN-6M	12/13/23
23L0639-05	EN-9M	12/13/23
BL30827-BLK1	Blank	12/13/23
BL30827-BS1	LCS	12/13/23
BL30827-DUP1	Duplicate	12/13/23
BL30827-MS1	Matrix Spike	12/13/23
BL30827-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30902 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/13/23
23L0639-02	CW-4S	12/13/23

23L0639-03	EN-6S	12/13/23
23L0639-04	EN-6M	12/13/23
23L0639-05	EN-9M	12/13/23
BL30902-BLK1	Blank	12/13/23
BL30902-DUP1	Duplicate	12/13/23
BL30902-DUP2	Duplicate	12/13/23

Batch ID: BL30948 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/14/23
23L0639-02	CW-4S	12/14/23
23L0639-03	EN-6S	12/14/23
23L0639-04	EN-6M	12/14/23
23L0639-05	EN-9M	12/14/23
23L0639-06	Trip Blank	12/14/23
BL30948-BLK1	Blank	12/14/23
BL30948-BS1	LCS	12/14/23
BL30948-BSD1	LCS Dup	12/14/23

Batch ID: BL31037 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/15/23
23L0639-02	CW-4S	12/15/23
23L0639-03	EN-6S	12/15/23
23L0639-04	EN-6M	12/15/23
23L0639-05	EN-9M	12/15/23
BL31037-BLK1	Blank	12/15/23
BL31037-BS1	LCS	12/15/23
BL31037-DUP1	Duplicate	12/15/23
BL31037-MS1	Matrix Spike	12/15/23
BL31037-PS1	Post Spike	12/15/23

Batch ID: BL31038 **Preparation Method:** EPA 200.7 **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/15/23
23L0639-02	CW-4S	12/15/23
23L0639-03	EN-6S	12/15/23
23L0639-04	EN-6M	12/15/23
23L0639-05	EN-9M	12/15/23

Batch ID: BL31040 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-01	CW-4M	12/15/23
23L0639-02	CW-4S	12/15/23
23L0639-03	EN-6S	12/15/23

23L0639-04	EN-6M	12/15/23
23L0639-05	EN-9M	12/15/23
BL31040-BLK1	Blank	12/15/23
BL31040-BS1	LCS	12/15/23
BL31040-DUP1	Duplicate	12/15/23
BL31040-MS1	Matrix Spike	12/15/23

Batch ID: BL31204 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0639-05	EN-9M	12/16/23
BL31204-BLK1	Blank	12/15/23
BL31204-BS1	LCS	12/15/23
BL31204-DUP1	Duplicate	12/15/23
BL31204-DUP2	Duplicate	12/16/23
BL31204-MS1	Matrix Spike	12/15/23
BL31204-MS2	Matrix Spike	12/16/23
BL31204-MSD1	Matrix Spike Dup	12/16/23
BL31204-MSD2	Matrix Spike Dup	12/16/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30948 - EPA 5030B											
Blank (BL30948-BLK1)											Prepared & Analyzed: 12/14/2023
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.46*		*"*	*10.0*		*94.6*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.73*		*"*	*10.0*		*97.3*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30948 - EPA 5030B											
LCS (BL30948-BS1)							Prepared & Analyzed: 12/14/2023				
1,1,1-Trichloroethane	9.86		ug/L	10.0		98.6	75-125				
1,1,2,2-Tetrachloroethane	10.4		"	10.0		104	60-140				
1,1,2-Trichloroethane	9.48		"	10.0		94.8	71-129				
1,1-Dichloroethane	9.27		"	10.0		92.7	72-128				
1,1-Dichloroethylene	10.3		"	10.0		103	50-150				
1,2-Dichlorobenzene	9.15		"	10.0		91.5	63-137				
1,2-Dichloroethane	11.0		"	10.0		110	68-132				
1,2-Dichloropropane	9.97		"	10.0		99.7	34-166				
1,3-Dichlorobenzene	9.28		"	10.0		92.8	73-127				
1,4-Dichlorobenzene	9.03		"	10.0		90.3	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	11.0		"	10.0		110	64-136				
Bromodichloromethane	9.77		"	10.0		97.7	65-135				
Bromoform	9.11		"	10.0		91.1	71-129				
Bromomethane	8.04		"	10.0		80.4	14-186				
Carbon tetrachloride	10.2		"	10.0		102	73-127				
Chlorobenzene	9.64		"	10.0		96.4	66-134				
Chloroethane	9.91		"	10.0		99.1	38-162				
Chloroform	9.66		"	10.0		96.6	67-133				
Chloromethane	10.7		"	10.0		107	0.5-204				
cis-1,2-Dichloroethylene	9.78		"	10.0		97.8	70-130				
cis-1,3-Dichloropropylene	9.35		"	10.0		93.5	24-176				
Dibromochloromethane	9.60		"	10.0		96.0	67-133				
Ethyl Benzene	9.97		"	10.0		99.7	59-141				
Methylene chloride	9.27		"	10.0		92.7	60-140				
o-Xylene	9.81		"	10.0		98.1	70-130				
p- & m- Xylenes	20.0		"	20.0		100	70-130				
Tetrachloroethylene	5.53		"	10.0		55.3	73-127	Low Bias			
Toluene	10.0		"	10.0		100	74-126				
trans-1,2-Dichloroethylene	9.57		"	10.0		95.7	69-131				
trans-1,3-Dichloropropylene	9.57		"	10.0		95.7	50-150				
Trichloroethylene	9.18		"	10.0		91.8	66-134				
Trichlorofluoromethane	10.7		"	10.0		107	48-152				
Vinyl Chloride	10.6		"	10.0		106	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.45*		*"*	*10.0*		*94.5*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30948 - EPA 5030B											
LCS Dup (BL30948-BSD1)								Prepared & Analyzed: 12/14/2023			
1,1,1-Trichloroethane	10.0		ug/L	10.0		100	75-125		1.61	30	
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	60-140		4.80	30	
1,1,2-Trichloroethane	9.90		"	10.0		99.0	71-129		4.33	30	
1,1-Dichloroethane	10.1		"	10.0		101	72-128		8.17	30	
1,1-Dichloroethylene	11.0		"	10.0		110	50-150		6.66	30	
1,2-Dichlorobenzene	9.32		"	10.0		93.2	63-137		1.84	30	
1,2-Dichloroethane	11.2		"	10.0		112	68-132		1.81	30	
1,2-Dichloropropane	9.90		"	10.0		99.0	34-166		0.705	30	
1,3-Dichlorobenzene	9.08		"	10.0		90.8	73-127		2.18	30	
1,4-Dichlorobenzene	9.00		"	10.0		90.0	63-137		0.333	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	10.6		"	10.0		106	64-136		3.99	30	
Bromodichloromethane	9.87		"	10.0		98.7	65-135		1.02	30	
Bromoform	9.85		"	10.0		98.5	71-129		7.81	30	
Bromomethane	8.99		"	10.0		89.9	14-186		11.2	30	
Carbon tetrachloride	10.0		"	10.0		100	73-127		1.19	30	
Chlorobenzene	9.48		"	10.0		94.8	66-134		1.67	30	
Chloroethane	10.7		"	10.0		107	38-162		7.48	30	
Chloroform	10.2		"	10.0		102	67-133		5.83	30	
Chloromethane	11.0		"	10.0		110	0.5-204		2.39	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	70-130		7.58	30	
cis-1,3-Dichloropropylene	9.51		"	10.0		95.1	24-176		1.70	30	
Dibromochloromethane	10.0		"	10.0		100	67-133		4.28	30	
Ethyl Benzene	9.68		"	10.0		96.8	59-141		2.95	30	
Methylene chloride	10.5		"	10.0		105	60-140		12.4	30	
o-Xylene	9.54		"	10.0		95.4	70-130		2.79	30	
p- & m- Xylenes	19.6		"	20.0		97.8	70-130		2.22	30	
Tetrachloroethylene	5.29		"	10.0		52.9	73-127	Low Bias	4.44	30	
Toluene	9.65		"	10.0		96.5	74-126		3.56	30	
trans-1,2-Dichloroethylene	10.2		"	10.0		102	69-131		6.76	30	
trans-1,3-Dichloropropylene	9.71		"	10.0		97.1	50-150		1.45	30	
Trichloroethylene	8.97		"	10.0		89.7	66-134		2.31	30	
Trichlorofluoromethane	10.8		"	10.0		108	48-152		1.21	30	
Vinyl Chloride	10.7		"	10.0		107	4-196		1.04	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.42*		*"*	*10.0*		*94.2*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.94*		*"*	*10.0*		*99.4*	*71-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31037 - EPA 3015A											
Blank (BL31037-BLK1)								Prepared & Analyzed: 12/15/2023			
Aluminum	ND	0.0556	mg/L								
Calcium	0.203	0.0556	"								
Chromium	ND	0.00556	"								
Iron	ND	0.278	"								
Magnesium	ND	0.0556	"								
Potassium	ND	0.0556	"								
Sodium	ND	0.556	"								
LCS (BL31037-BS1)								Prepared & Analyzed: 12/15/2023			
Aluminum	1.90		ug/mL	2.00		94.9	80-120				
Calcium	0.962		"	1.00		96.2	80-120				
Chromium	0.199		"	0.200		99.5	80-120				
Iron	1.03		"	1.00		103	80-120				
Magnesium	0.984		"	1.00		98.4	80-120				
Potassium	0.922		"	1.00		92.2	80-120				
Sodium	1.56		"	1.00		156	80-120	High Bias			
Duplicate (BL31037-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/15/2023			
Aluminum	2.11	0.0556	mg/L		0.0761				186	20	Non-dir.
Calcium	25.7	0.0556	"		24.8				3.64	20	
Chromium	0.289	0.00556	"		0.0801				113	20	Non-dir.
Iron	1.66	0.278	"		0.592				94.7	20	Non-dir.
Magnesium	10.5	0.0556	"		9.44				10.6	20	
Potassium	2.70	0.0556	"		1.68				46.4	20	Non-dir.
Sodium	17.2	0.556	"		15.8				8.09	20	
Matrix Spike (BL31037-MS1)	*Source sample: 23L0644-01 (Matrix Spike)							Prepared & Analyzed: 12/15/2023			
Aluminum	ND	0.0556	mg/L	2.22	0.0761	NR	75-125	Low Bias			
Chromium	0.0183	0.00556	"	0.222	0.0801	NR	75-125	Low Bias			
Iron	ND	0.278	"	1.11	0.592	NR	75-125	Low Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31037 - EPA 3015A											
Post Spike (BL31037-PS1)	*Source sample: 23L0644-01 (Post Spike)							Prepared & Analyzed: 12/15/2023			
Aluminum	0.0557		ug/mL	2.00	0.0685	NR	75-125	Low Bias			
Calcium	103		"	1.00	22.3	NR	75-125	High Bias			
Chromium	0.00129		"	0.200	0.0721	NR	75-125	Low Bias			
Iron	0.0747		"	1.00	0.533	NR	75-125	Low Bias			
Magnesium	37.0		"	1.00	8.50	NR	75-125	High Bias			
Potassium	11.1		"	1.00	1.51	956	75-125	High Bias			
Sodium	64.1		"	1.00	14.3	NR	75-125	High Bias			

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31040 - EPA 3015A											
Blank (BL31040-BLK1)									Prepared & Analyzed: 12/15/2023		
Arsenic	ND	1.11	ug/L								
Cadmium	ND	0.556	"								
Lead	ND	1.11	"								
LCS (BL31040-BS1)									Prepared & Analyzed: 12/15/2023		
Arsenic	46.6		ug/L	50.0		93.2	80-120				
Cadmium	46.3		"	50.0		92.6	80-120				
Lead	50.8		"	50.0		102	80-120				
Duplicate (BL31040-DUP1)	*Source sample: 23L0644-01 (Duplicate)								Prepared & Analyzed: 12/15/2023		
Arsenic	ND	1.11	ug/L		ND					20	
Cadmium	ND	0.556	"		ND					20	
Lead	ND	1.11	"		ND					20	
Matrix Spike (BL31040-MS1)	*Source sample: 23L0644-01 (Matrix Spike)								Prepared & Analyzed: 12/15/2023		
Arsenic	47.2		ug/L	50.0	0.177	94.0	75-125				
Cadmium	47.5		"	50.0	0.025	95.0	75-125				
Lead	49.8		"	50.0	0.251	99.1	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30827 - EPA 245.1 Mercury											
Blank (BL30827-BLK1)								Prepared & Analyzed: 12/13/2023			
Mercury	ND	0.0002000	mg/L								
LCS (BL30827-BS1)								Prepared & Analyzed: 12/13/2023			
Mercury	0.002060	0.0002000	mg/L	0.00200		103	75-125				
Duplicate (BL30827-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Mercury	ND	0.0002000	mg/L		ND					20	
Matrix Spike (BL30827-MS1)	*Source sample: 23L0644-01 (Matrix Spike)							Prepared & Analyzed: 12/13/2023			
Mercury	0.002435	0.0002000	mg/L	0.00200	ND	122	75-125				
Matrix Spike Dup (BL30827-MSD1)	*Source sample: 23L0644-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/13/2023			
Mercury	0.002341	0.0002000	mg/L	0.00200	ND	117	75-125		3.94	20	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30698 - EPA 300											
Blank (BL30698-BLK1)								Prepared & Analyzed: 12/08/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL30698-BS1)								Prepared & Analyzed: 12/08/2023			
Chloride	9.92	0.500	mg/L	10.0		99.2	90-110				
Nitrate as N	10.1	0.0500	"	10.0		101	90-110				
Sulfate	10.4	1.00	"	10.0		104	85-115				
Duplicate (BL30698-DUP1)	*Source sample: 23L0608-01 (Duplicate)							Prepared & Analyzed: 12/08/2023			
Chloride	ND	0.500	mg/L		ND					15	
Nitrate as N	0.0256	0.0500	"		0.0252				1.57	15	
Sulfate	7.11	1.00	"		7.09				0.251	15	
Duplicate (BL30698-DUP2)	*Source sample: 23L0608-02 (Duplicate)							Prepared & Analyzed: 12/08/2023			
Chloride	48.9	0.500	mg/L		49.4				1.06	15	
Nitrate as N	ND	0.0500	"		ND					15	
Sulfate	20.5	1.00	"		20.5				0.00586	15	
Matrix Spike (BL30698-MS1)	*Source sample: 23L0608-01 (Matrix Spike)							Prepared & Analyzed: 12/08/2023			
Chloride	ND	0.500	mg/L	10.0	ND		85-115	Low Bias			
Nitrate as N	10.1	0.0500	"	10.0	0.0252	101	90-110				
Sulfate	16.5	1.00	"	10.0	7.09	94.3	85-115				
Matrix Spike (BL30698-MS2)	*Source sample: 23L0608-02 (Matrix Spike)							Prepared & Analyzed: 12/08/2023			
Chloride	48.1	0.500	mg/L	10.0	49.4	NR	85-115	Low Bias			
Nitrate as N	9.74	0.0500	"	10.0	ND	97.4	90-110				
Sulfate	28.1	1.00	"	10.0	20.5	75.9	85-115	Low Bias			

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30698 - EPA 300											
Matrix Spike Dup (BL30698-MSD1)	*Source sample: 23L0608-01 (Matrix Spike Dup)								Prepared & Analyzed: 12/08/2023		
Chloride	ND	0.500	mg/L	10.0	ND		85-115	Low Bias		20	
Nitrate as N	10.1	0.0500	"	10.0	0.0252	101	90-110		0.0710	200	
Sulfate	16.5	1.00	"	10.0	7.09	93.8	85-115		0.299	20	
Matrix Spike Dup (BL30698-MSD2)	*Source sample: 23L0608-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/08/2023		
Chloride	48.3	0.500	mg/L	10.0	49.4	NR	85-115	Low Bias	0.453	20	
Nitrate as N	9.80	0.0500	"	10.0	ND	98.0	90-110		0.684	200	
Sulfate	27.8	1.00	"	10.0	20.5	73.8	85-115	Low Bias	0.770	20	
Batch BL30699 - EPA 300											
Blank (BL30699-BLK1)									Prepared & Analyzed: 12/09/2023		
Nitrate as N	ND	0.0500	mg/L								
Sulfate	ND	1.00	"								
LCS (BL30699-BS1)									Prepared & Analyzed: 12/09/2023		
Nitrate as N	9.77	0.0500	mg/L	10.0		97.7	90-110				
Sulfate	10.1	1.00	"	10.0		101	85-115				
Duplicate (BL30699-DUP1)	*Source sample: 23L0639-05 (EN-9M)								Prepared & Analyzed: 12/09/2023		
Nitrate as N	1.37	0.0500	mg/L		1.37				0.0729	15	
Sulfate	16.6	1.00	"		16.5				0.681	15	
Duplicate (BL30699-DUP2)	*Source sample: 23L0618-01 (Duplicate)								Prepared & Analyzed: 12/09/2023		
Nitrate as N	0.373	0.0500	mg/L		0.358				4.02	15	
Sulfate	13.4	1.00	"		13.4				0.290	15	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30699 - EPA 300											
Matrix Spike (BL30699-MS1)	*Source sample: 23L0639-05 (EN-9M)							Prepared & Analyzed: 12/09/2023			
Nitrate as N	11.3	0.0500	mg/L	10.0	1.37	98.9	90-110				
Sulfate	24.8	1.00	"	10.0	16.5	83.1	85-115	Low Bias			
Matrix Spike Dup (BL30699-MSD1)	*Source sample: 23L0639-05 (EN-9M)							Prepared & Analyzed: 12/09/2023			
Nitrate as N	11.5	0.0500	mg/L	10.0	1.37	101	90-110		1.72	200	
Sulfate	24.6	1.00	"	10.0	16.5	80.5	85-115	Low Bias	1.04	20	
Batch BL30795 - EPA 300											
Blank (BL30795-BLK1)								Prepared & Analyzed: 12/12/2023			
Chloride	ND	0.500	mg/L								
LCS (BL30795-BS1)								Prepared & Analyzed: 12/12/2023			
Chloride	9.89	0.500	mg/L	10.0		98.9	90-110				
Duplicate (BL30795-DUP1)	*Source sample: 23L0731-03 (Duplicate)							Prepared & Analyzed: 12/12/2023			
Chloride	52.2	0.500	mg/L		75.9				36.9	15	Non-dir.
Duplicate (BL30795-DUP2)	*Source sample: 23L0731-04 (Duplicate)							Prepared & Analyzed: 12/12/2023			
Chloride	49.4	0.500	mg/L		66.8				29.9	15	Non-dir.
Matrix Spike (BL30795-MS1)	*Source sample: 23L0731-03 (Matrix Spike)							Prepared & Analyzed: 12/12/2023			
Chloride	53.6	0.500	mg/L	10.0	75.9	NR	85-115	Low Bias			
Matrix Spike (BL30795-MS2)	*Source sample: 23L0731-04 (Matrix Spike)							Prepared & Analyzed: 12/12/2023			
Chloride	51.0	0.500	mg/L	10.0	66.8	NR	85-115	Low Bias			

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30795 - EPA 300											
Matrix Spike Dup (BL30795-MSD1)	*Source sample: 23L0731-03 (Matrix Spike Dup)								Prepared & Analyzed: 12/12/2023		
Chloride	53.6	0.500	mg/L	10.0	75.9	NR	85-115	Low Bias	0.0278	20	
Matrix Spike Dup (BL30795-MSD2)	*Source sample: 23L0731-04 (Matrix Spike Dup)								Prepared & Analyzed: 12/12/2023		
Chloride	53.6	0.500	mg/L	10.0	66.8	NR	85-115	Low Bias	4.91	20	
Batch BL31204 - EPA 300											
Blank (BL31204-BLK1)									Prepared & Analyzed: 12/15/2023		
Chloride	ND	0.500	mg/L								
LCS (BL31204-BS1)									Prepared & Analyzed: 12/15/2023		
Chloride	9.84	0.500	mg/L	10.0		98.4	90-110				
Duplicate (BL31204-DUP1)	*Source sample: 23L1171-02 (Duplicate)								Prepared & Analyzed: 12/15/2023		
Chloride	51.2	0.500	mg/L		50.7				1.07	15	
Duplicate (BL31204-DUP2)	*Source sample: 23L1177-02 (Duplicate)								Prepared & Analyzed: 12/16/2023		
Chloride	34.7	0.500	mg/L		35.0				0.851	15	
Matrix Spike (BL31204-MS1)	*Source sample: 23L1171-02 (Matrix Spike)								Prepared & Analyzed: 12/15/2023		
Chloride	55.6	0.500	mg/L	10.0	50.7	49.6	85-115	Low Bias			
Matrix Spike (BL31204-MS2)	*Source sample: 23L1177-02 (Matrix Spike)								Prepared & Analyzed: 12/16/2023		
Chloride	41.2	0.500	mg/L	10.0	35.0	61.3	85-115	Low Bias			
Matrix Spike Dup (BL31204-MSD1)	*Source sample: 23L1171-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/16/2023		
Chloride	55.6	0.500	mg/L	10.0	50.7	49.4	85-115	Low Bias	0.0315	20	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31204 - EPA 300											
Matrix Spike Dup (BL31204-MSD2)	*Source sample: 23L1177-02 (Matrix Spike Dup)							Prepared & Analyzed: 12/16/2023			
Chloride	41.3	0.500	mg/L	10.0	35.0	62.6	85-115	Low Bias	0.317	20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30644 - Analysis Preparation											
Duplicate (BL30644-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/11/2023			
Alkalinity, total	37	2.0	mg/L		35				5.56	15	
Reference (BL30644-SRM1)								Prepared & Analyzed: 12/11/2023			
Alkalinity, total	76		mg/L	77.2		98.4	90-110				
Batch BL30645 - Analysis Preparation											
Blank (BL30645-BLK1)								Prepared & Analyzed: 12/11/2023			
Bicarbonate	ND	2.00	mg/L								
Duplicate (BL30645-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/11/2023			
Bicarbonate	37.0	2.00	mg/L		35.0				5.56	15	
Batch BL30802 - Analysis Preparation											
Blank (BL30802-BLK1)								Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L								
LCS (BL30802-BS1)								Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	1.24	0.0500	mg/L				85-125				
Duplicate (BL30802-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L		ND					15	
Matrix Spike (BL30802-MS1)	*Source sample: 23L0644-01 (Matrix Spike)							Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	14.6	0.0500	mg/L		ND		80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30802 - Analysis Preparation											
Matrix Spike Dup (BL30802-MSD1)	*Source sample: 23L0644-01 (Matrix Spike Dup)								Prepared: 12/12/2023 Analyzed: 12/13/2023		
Ammonia Nitrogen as NH3	14.6	0.0500	mg/L		ND		80-120		0.00	200	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30902 - % Solids Prep											
Blank (BL30902-BLK1)								Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BL30902-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	180	10.0	mg/L		177				1.68	15	
Duplicate (BL30902-DUP2)	*Source sample: 23L0731-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	1040	10.0	mg/L		1040				0.288	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23L0639-01	CW-4M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0639-02	CW-4S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0639-03	EN-6S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0639-04	EN-6M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0639-05	EN-9M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0639-06	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L0639

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: D+B Engineers + Architects	Company:	Company:	5629	RUSH - Next Day
Address: 330 Crossways Park Dr, Woodbury, NY, 11797	Address: "	Address: "	YOUR Project Name: East NorthPort Groundwater Sampling	RUSH - Two Day
Phone: 516-364-9890	Phone: Same	Phone: Same		RUSH - Three Day
Contact: Keith Robins	Contact:	Contact:		RUSH - Four Day
E-mail: Krobinsedb-eng.com	E-mail: "	E-mail: "	YOUR PO#: 5629	RUSH - Five Day
				Standard (6-9 Day) ✓
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	X	Summary Report	CT RCP	EQuIS (Standard)	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey		QA Report	CT RCP DQA/DUE	NYSDEC EQuIS	
DW - drinking water	Connecticut		CMDP	NJDEP Reduced	NJDKQP	
WW - wastewater	Pennsylvania		Standard Excel EDD	Deliverables	NJDEP SRP HazSite	
O - Oil / Other	Other:		NY ASP B Package	Other: Cal. B		

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
CW-4M	GW	12/7/23 9:15	Volatile organics, metals + Hardness (3) 40ml VOA		3
CW-4S		12/7/23 10:45	ALK, Bicarb, TDS, NO_2, NH_3, (2) 1L Plastic		2
EN-6S		12/7/23 1:20	NO_3, Cadmium, Arsenic, Chromium (2) 250mL		2
EN-6M		12/7/23 2:35	Aluminum, Calcium, Iron, Lead, Plastic		
EN-9M		12/7/23 3:55	Magnesium, Mercury, Potassium,		
			Sodium, Ammonium, Nitrate,		
			Chloride, TDS, Hardness, Sulfate		

Comments: Analysis Same for all four samples, Provide Category "B" + EQuIS send data to labdata@dbeng.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ___ H2SO4 ✓ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ✓
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
D+B	12/7/23 4:45	Ramon York	12/8/23 15:00	Ramon York	12/8/23 19:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	12/8/23 19:35 / 1.4 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/18/2023
Client Project ID: 5629 East Northport Ground water
York Project (SDG) No.: 23L0644

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/18/2023
Client Project ID: 5629 East Northport Ground water
York Project (SDG) No.: 23L0644

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 08, 2023 and listed below. The project was identified as your project: **5629 East Northport Ground water**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0644-01	EN1-M-120823	Ground Water	12/08/2023	12/08/2023
23L0644-02	Trip Blank	Water	12/07/2023	12/08/2023

General Notes for York Project (SDG) No.: 23L0644

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/18/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **EN1-M-120823** **York Sample ID:** **23L0644-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Ground Water	December 8, 2023 10:45 am	12/08/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
67-66-3	**Chloroform**	**1.1**		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 14:50	SMA

Sample Information

Client Sample ID: EN1-M-120823 **York Sample ID:** 23L0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Ground Water	December 8, 2023 10:45 am	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 14:50	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.6 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.9 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.4 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0761**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: EN1-M-120823 **York Sample ID:** 23L0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Ground Water	December 8, 2023 10:45 am	12/08/2023

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**24.8**	B	mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.0801**		mg/L	0.00556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**101**		mg/L	1.11	1	SM 2340B-2011	12/15/2023 09:03	12/15/2023 17:05	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**0.592**		mg/L	0.278	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**9.44**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1.68**		mg/L	0.0556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**15.8**	M-BS	mg/L	0.556	1	EPA 6010D	12/15/2023 08:50	12/15/2023 17:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN1-M-120823 **York Sample ID:** 23L0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Ground Water	December 8, 2023 10:45 am	12/08/2023

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	12/15/2023 09:09	12/15/2023 14:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/13/2023 08:16	12/13/2023 08:16	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**47.0**		mg/L	0.0690	0.500	1	EPA 300.0	12/13/2023 16:25	12/13/2023 16:25	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**7.23**	HT-01	mg/L	0.0500	1	EPA 300.0	12/13/2023 16:25	12/13/2023 16:25	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**29.0**		mg/L	1.00	1	EPA 300.0	12/13/2023 16:25	12/13/2023 16:25	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN1-M-120823 **York Sample ID:** 23L0644-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Ground Water	December 8, 2023 10:45 am	12/08/2023

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**35**		mg/L	2.0	1	SM 2320B	12/11/2023 08:07	12/11/2023 14:26	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as NH3	ND		mg/L	0.0500	1	SM 4500-NH3 D	12/12/2023 17:28	12/13/2023 20:41	NJO
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**35.0**		mg/L	2.00	1	SM 2310B	12/11/2023 08:09	12/11/2023 14:27	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**177**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23L0644-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Water	December 7, 2023 3:00 pm	12/08/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 11:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 11:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/14/2023 09:00	12/14/2023 11:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0644-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Water	December 7, 2023 3:00 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0644-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0644	5629 East Northport Ground water	Water	December 7, 2023 3:00 pm	12/08/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/14/2023 11:32	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/14/2023 09:00	12/14/2023 11:32	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.3 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.4 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.7 %*	*71-130*

Analytical Batch Summary

Batch ID: BL30644 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/11/23
BL30644-DUP1	Duplicate	12/11/23
BL30644-SRM1	Reference	12/11/23

Batch ID: BL30645 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/11/23
BL30645-BLK1	Blank	12/11/23
BL30645-DUP1	Duplicate	12/11/23

Batch ID: BL30802 **Preparation Method:** Analysis Preparation **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/12/23
BL30802-BLK1	Blank	12/12/23
BL30802-BS1	LCS	12/12/23
BL30802-DUP1	Duplicate	12/12/23
BL30802-MS1	Matrix Spike	12/12/23
BL30802-MSD1	Matrix Spike Dup	12/12/23

Batch ID: BL30827 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/13/23
BL30827-BLK1	Blank	12/13/23
BL30827-BS1	LCS	12/13/23
BL30827-DUP1	Duplicate	12/13/23
BL30827-MS1	Matrix Spike	12/13/23
BL30827-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30900 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/13/23
BL30900-BLK1	Blank	12/13/23
BL30900-BS1	LCS	12/13/23
BL30900-DUP1	Duplicate	12/13/23
BL30900-MS1	Matrix Spike	12/13/23
BL30900-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30902 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/13/23
BL30902-BLK1	Blank	12/13/23
BL30902-DUP1	Duplicate	12/13/23
BL30902-DUP2	Duplicate	12/13/23

Batch ID: BL30947 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/14/23
23L0644-02	Trip Blank	12/14/23
BL30947-BLK1	Blank	12/14/23
BL30947-BS1	LCS	12/14/23
BL30947-BSD1	LCS Dup	12/14/23

Batch ID: BL31037 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/15/23
BL31037-BLK1	Blank	12/15/23
BL31037-BS1	LCS	12/15/23
BL31037-DUP1	Duplicate	12/15/23
BL31037-MS1	Matrix Spike	12/15/23
BL31037-PS1	Post Spike	12/15/23

Batch ID: BL31038 **Preparation Method:** EPA 200.7 **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/15/23

Batch ID: BL31040 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0644-01	EN1-M-120823	12/15/23
BL31040-BLK1	Blank	12/15/23
BL31040-BS1	LCS	12/15/23
BL31040-DUP1	Duplicate	12/15/23
BL31040-MS1	Matrix Spike	12/15/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30947 - EPA 5030B											
Blank (BL30947-BLK1)											Prepared & Analyzed: 12/14/2023
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.66*		*"*	*10.0*		*96.6*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.53*		*"*	*10.0*		*95.3*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.50*		*"*	*10.0*		*95.0*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30947 - EPA 5030B											
LCS (BL30947-BS1)							Prepared & Analyzed: 12/14/2023				
1,1,1-Trichloroethane	9.89		ug/L	10.0		98.9	75-125				
1,1,2,2-Tetrachloroethane	8.68		"	10.0		86.8	60-140				
1,1,2-Trichloroethane	8.93		"	10.0		89.3	71-129				
1,1-Dichloroethane	9.27		"	10.0		92.7	72-128				
1,1-Dichloroethylene	9.89		"	10.0		98.9	50-150				
1,2-Dichlorobenzene	8.92		"	10.0		89.2	63-137				
1,2-Dichloroethane	9.39		"	10.0		93.9	68-132				
1,2-Dichloropropane	8.50		"	10.0		85.0	34-166				
1,3-Dichlorobenzene	8.69		"	10.0		86.9	73-127				
1,4-Dichlorobenzene	8.61		"	10.0		86.1	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	10.2		"	10.0		102	64-136				
Bromodichloromethane	8.62		"	10.0		86.2	65-135				
Bromoform	8.76		"	10.0		87.6	71-129				
Bromomethane	4.08		"	10.0		40.8	14-186				
Carbon tetrachloride	10.2		"	10.0		102	73-127				
Chlorobenzene	9.26		"	10.0		92.6	66-134				
Chloroethane	10.9		"	10.0		109	38-162				
Chloroform	9.90		"	10.0		99.0	67-133				
Chloromethane	9.20		"	10.0		92.0	0.5-204				
cis-1,2-Dichloroethylene	9.42		"	10.0		94.2	70-130				
cis-1,3-Dichloropropylene	8.37		"	10.0		83.7	24-176				
Dibromochloromethane	8.98		"	10.0		89.8	67-133				
Ethyl Benzene	9.43		"	10.0		94.3	59-141				
Methylene chloride	9.09		"	10.0		90.9	60-140				
o-Xylene	8.82		"	10.0		88.2	70-130				
p- & m- Xylenes	16.0		"	20.0		79.9	70-130				
Tetrachloroethylene	7.26		"	10.0		72.6	73-127	Low Bias			
Toluene	9.48		"	10.0		94.8	74-126				
trans-1,2-Dichloroethylene	9.48		"	10.0		94.8	69-131				
trans-1,3-Dichloropropylene	8.30		"	10.0		83.0	50-150				
Trichloroethylene	9.08		"	10.0		90.8	66-134				
Trichlorofluoromethane	11.4		"	10.0		114	48-152				
Vinyl Chloride	10.3		"	10.0		103	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.70*		*"*	*10.0*		*97.0*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.52*		*"*	*10.0*		*95.2*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.38*		*"*	*10.0*		*93.8*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30947 - EPA 5030B											
LCS Dup (BL30947-BSD1)								Prepared & Analyzed: 12/14/2023			
1,1,1-Trichloroethane	9.64		ug/L	10.0		96.4	75-125		2.56	30	
1,1,2,2-Tetrachloroethane	8.95		"	10.0		89.5	60-140		3.06	30	
1,1,2-Trichloroethane	8.80		"	10.0		88.0	71-129		1.47	30	
1,1-Dichloroethane	9.13		"	10.0		91.3	72-128		1.52	30	
1,1-Dichloroethylene	9.54		"	10.0		95.4	50-150		3.60	30	
1,2-Dichlorobenzene	8.94		"	10.0		89.4	63-137		0.224	30	
1,2-Dichloroethane	9.23		"	10.0		92.3	68-132		1.72	30	
1,2-Dichloropropane	8.33		"	10.0		83.3	34-166		2.02	30	
1,3-Dichlorobenzene	8.71		"	10.0		87.1	73-127		0.230	30	
1,4-Dichlorobenzene	8.58		"	10.0		85.8	63-137		0.349	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	10.0		"	10.0		100	64-136		1.68	30	
Bromodichloromethane	8.60		"	10.0		86.0	65-135		0.232	30	
Bromoform	8.89		"	10.0		88.9	71-129		1.47	30	
Bromomethane	4.87		"	10.0		48.7	14-186		17.7	30	
Carbon tetrachloride	9.89		"	10.0		98.9	73-127		3.57	30	
Chlorobenzene	9.21		"	10.0		92.1	66-134		0.541	30	
Chloroethane	10.9		"	10.0		109	38-162		0.459	30	
Chloroform	9.80		"	10.0		98.0	67-133		1.02	30	
Chloromethane	8.99		"	10.0		89.9	0.5-204		2.31	30	
cis-1,2-Dichloroethylene	9.32		"	10.0		93.2	70-130		1.07	30	
cis-1,3-Dichloropropylene	8.27		"	10.0		82.7	24-176		1.20	30	
Dibromochloromethane	8.92		"	10.0		89.2	67-133		0.670	30	
Ethyl Benzene	9.27		"	10.0		92.7	59-141		1.71	30	
Methylene chloride	9.02		"	10.0		90.2	60-140		0.773	30	
o-Xylene	8.78		"	10.0		87.8	70-130		0.455	30	
p- & m- Xylenes	15.8		"	20.0		78.9	70-130		1.26	30	
Tetrachloroethylene	7.05		"	10.0		70.5	73-127	Low Bias	2.94	30	
Toluene	9.28		"	10.0		92.8	74-126		2.13	30	
trans-1,2-Dichloroethylene	9.24		"	10.0		92.4	69-131		2.56	30	
trans-1,3-Dichloropropylene	8.32		"	10.0		83.2	50-150		0.241	30	
Trichloroethylene	8.83		"	10.0		88.3	66-134		2.79	30	
Trichlorofluoromethane	11.2		"	10.0		112	48-152		1.69	30	
Vinyl Chloride	10.2		"	10.0		102	4-196		0.975	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.78*		*"*	*10.0*		*97.8*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.47*		*"*	*10.0*		*94.7*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.42*		*"*	*10.0*		*94.2*	*71-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31037 - EPA 3015A											
Blank (BL31037-BLK1)								Prepared & Analyzed: 12/15/2023			
Aluminum	ND	0.0556	mg/L								
Calcium	0.203	0.0556	"								
Chromium	ND	0.00556	"								
Iron	ND	0.278	"								
Magnesium	ND	0.0556	"								
Potassium	ND	0.0556	"								
Sodium	ND	0.556	"								
LCS (BL31037-BS1)								Prepared & Analyzed: 12/15/2023			
Aluminum	1.90		ug/mL	2.00		94.9	80-120				
Calcium	0.962		"	1.00		96.2	80-120				
Chromium	0.199		"	0.200		99.5	80-120				
Iron	1.03		"	1.00		103	80-120				
Magnesium	0.984		"	1.00		98.4	80-120				
Potassium	0.922		"	1.00		92.2	80-120				
Sodium	1.56		"	1.00		156	80-120	High Bias			
Duplicate (BL31037-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/15/2023			
Aluminum	2.11	0.0556	mg/L		0.0761				186	20	Non-dir.
Calcium	25.7	0.0556	"		24.8				3.64	20	
Chromium	0.289	0.00556	"		0.0801				113	20	Non-dir.
Iron	1.66	0.278	"		0.592				94.7	20	Non-dir.
Magnesium	10.5	0.0556	"		9.44				10.6	20	
Potassium	2.70	0.0556	"		1.68				46.4	20	Non-dir.
Sodium	17.2	0.556	"		15.8				8.09	20	
Matrix Spike (BL31037-MS1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/15/2023			
Aluminum	ND	0.0556	mg/L	2.22	0.0761	NR	75-125	Low Bias			
Chromium	0.0183	0.00556	"	0.222	0.0801	NR	75-125	Low Bias			
Iron	ND	0.278	"	1.11	0.592	NR	75-125	Low Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31037 - EPA 3015A											
Post Spike (BL31037-PS1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/15/2023			
Aluminum	0.0557		ug/mL	2.00	0.0685	NR	75-125	Low Bias			
Calcium	103		"	1.00	22.3	NR	75-125	High Bias			
Chromium	0.00129		"	0.200	0.0721	NR	75-125	Low Bias			
Iron	0.0747		"	1.00	0.533	NR	75-125	Low Bias			
Magnesium	37.0		"	1.00	8.50	NR	75-125	High Bias			
Potassium	11.1		"	1.00	1.51	956	75-125	High Bias			
Sodium	64.1		"	1.00	14.3	NR	75-125	High Bias			

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31040 - EPA 3015A											
Blank (BL31040-BLK1)									Prepared & Analyzed: 12/15/2023		
Arsenic	ND	1.11	ug/L								
Cadmium	ND	0.556	"								
Lead	ND	1.11	"								
LCS (BL31040-BS1)									Prepared & Analyzed: 12/15/2023		
Arsenic	46.6		ug/L	50.0		93.2	80-120				
Cadmium	46.3		"	50.0		92.6	80-120				
Lead	50.8		"	50.0		102	80-120				
Duplicate (BL31040-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)								Prepared & Analyzed: 12/15/2023		
Arsenic	ND	1.11	ug/L		ND					20	
Cadmium	ND	0.556	"		ND					20	
Lead	ND	1.11	"		ND					20	
Matrix Spike (BL31040-MS1)	*Source sample: 23L0644-01 (EN1-M-120823)								Prepared & Analyzed: 12/15/2023		
Arsenic	47.2		ug/L	50.0	0.177	94.0	75-125				
Cadmium	47.5		"	50.0	0.025	95.0	75-125				
Lead	49.8		"	50.0	0.251	99.1	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30827 - EPA 245.1 Mercury											
Blank (BL30827-BLK1)								Prepared & Analyzed: 12/13/2023			
Mercury	ND	0.0002000	mg/L								
LCS (BL30827-BS1)								Prepared & Analyzed: 12/13/2023			
Mercury	0.002060	0.0002000	mg/L	0.00200		103	75-125				
Duplicate (BL30827-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Mercury	ND	0.0002000	mg/L		ND					20	
Matrix Spike (BL30827-MS1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Mercury	0.002435	0.0002000	mg/L	0.00200	ND	122	75-125				
Matrix Spike Dup (BL30827-MSD1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Mercury	0.002341	0.0002000	mg/L	0.00200	ND	117	75-125		3.94	20	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30900 - EPA 300											
Blank (BL30900-BLK1)								Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL30900-BS1)								Prepared & Analyzed: 12/13/2023			
Chloride	9.86	0.500	mg/L	10.0		98.6	90-110				
Nitrate as N	10.1	0.0500	"	10.0		101	90-110				
Sulfate	10.4	1.00	"	10.0		104	85-115				
Duplicate (BL30900-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Chloride	46.9	0.500	mg/L		47.0				0.270	15	
Nitrate as N	7.19	0.0500	"		7.23				0.587	15	
Sulfate	ND	1.00	"		29.0					15	
Matrix Spike (BL30900-MS1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Chloride	49.7	0.500	mg/L	10.0	47.0	26.8	85-115	Low Bias			
Nitrate as N	16.2	0.0500	"	10.0	7.23	90.1	90-110				
Sulfate	ND	1.00	"	10.0	29.0	NR	85-115	Low Bias			
Matrix Spike Dup (BL30900-MSD1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Chloride	49.2	0.500	mg/L	10.0	47.0	21.8	85-115	Low Bias	1.03	20	
Nitrate as N	17.4	0.0500	"	10.0	7.23	102	90-110		6.86	200	
Sulfate	34.3	1.00	"	10.0	29.0	53.1	85-115	Low Bias		20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30644 - Analysis Preparation											
Duplicate (BL30644-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/11/2023			
Alkalinity, total	37	2.0	mg/L		35				5.56	15	
Reference (BL30644-SRM1)								Prepared & Analyzed: 12/11/2023			
Alkalinity, total	76		mg/L	77.2		98.4	90-110				
Batch BL30645 - Analysis Preparation											
Blank (BL30645-BLK1)								Prepared & Analyzed: 12/11/2023			
Bicarbonate	ND	2.00	mg/L								
Duplicate (BL30645-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/11/2023			
Bicarbonate	37.0	2.00	mg/L		35.0				5.56	15	
Batch BL30802 - Analysis Preparation											
Blank (BL30802-BLK1)								Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L								
LCS (BL30802-BS1)								Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	1.24	0.0500	mg/L				85-125				
Duplicate (BL30802-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L		ND					15	
Matrix Spike (BL30802-MS1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared: 12/12/2023 Analyzed: 12/13/2023			
Ammonia Nitrogen as NH3	14.6	0.0500	mg/L		ND		80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30802 - Analysis Preparation											
Matrix Spike Dup (BL30802-MSD1)	*Source sample: 23L0644-01 (EN1-M-120823)								Prepared: 12/12/2023 Analyzed: 12/13/2023		
Ammonia Nitrogen as NH3	14.6	0.0500	mg/L		ND		80-120		0.00	200	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30902 - % Solids Prep											
Blank (BL30902-BLK1)								Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BL30902-DUP1)	*Source sample: 23L0644-01 (EN1-M-120823)							Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	180	10.0	mg/L		177				1.68	15	
Duplicate (BL30902-DUP2)	*Source sample: 23L0731-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	1040	10.0	mg/L		1040				0.288	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23L0644-01	EN1-M-120823	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0644-02	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 2360644

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page _____ of _____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: DTB Engineers + Architects	Company:	Company:	5629	RUSH - Next Day
Address: 330 Crossways Park Dr Woodbury, NY, 11797	Address: 11	Address: 11	YOUR Project Name: East NorthPort Groundwater	RUSH - Two Day
Phone: (516)-364-9890	Phone.: Same	Phone.: Same		RUSH - Three Day
Contact: Keith Robins	Contact: 11	Contact:		RUSH - Four Day
E-mail: Krobinse dbreng.com	E-mail:	E-mail: 11	YOUR PO#: 5629	RUSH - Five Day
				Standard (6-9 Day) X
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: Cat. B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN1-M-12/8/23	GW	12/8/23 10:45	Target Compound List, VOC's (624), aluminum, arsenic, cadmium, calcium, chromium, iron, lead, magnesium, mercury, Potassium, Sodium, alkalinity / Bicarbonate, ammonia, nitrate, Chloride, Sulfate, dissolved solids & Hardness	40mL glass Vial	3
EN1-M-12/8/23-MS	↓	↓ ↓		250mL Plastic	2
EN1-M-12/8/23-MSD	↓	↓ ↓		1L Plastic	2

Comments: Analyses is same for all Samples on this C.O.C

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ✓ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/8/23	Raman York	12/8/23 1500	Raman York	12/8/23 19:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	12/8/23 19:35 1.3 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/18/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L0648

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330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 08, 2023 and listed below. The project was identified as your project: **5629 East Northport Groundwater**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0648-01	EN1-M-120823	Ground Water	12/08/2023	12/08/2023

General Notes for York Project (SDG) No.: 23L0648

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: Cassie L. Mosher **Date:** 12/18/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID:	EN1-M-120823			York Sample ID:	23L0648-01
York Project (SDG) No.	Client Project ID		Matrix	Collection Date/Time	Date Received
23L0648	5629 East Northport Groundwater		Ground Water	December 8, 2023 10:45 am	12/08/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**0.304**		ug/L	0.300	1	EPA 8270D SIM	12/13/2023 08:23	12/14/2023 14:21	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*61.7 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**0.709**	J	ng/L	0.470	1.77	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**5.71**		ng/L	0.350	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**2.11**		ng/L	0.710	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**9.08**		ng/L	0.680	1.83	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
335-67-1	**Perfluorooctanoic acid (PFOA)**	**5.34**		ng/L	0.420	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.520	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NJDEP-NY037				
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**5.41**		ng/L	0.230	4.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NELAC-NY12058,NJDEP-NY037				
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 14:37	ESJ
							Certifications: NJDEP-NY037				

Sample Information

Client Sample ID: EN1-M-120823 **York Sample ID:** 23L0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0648	5629 East Northport Groundwater	Ground Water	December 8, 2023 10:45 am	12/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 14:37	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 14:37	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 14:37	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 14:37	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 14:37	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ

Sample Information

Client Sample ID: EN1-M-120823 **York Sample ID:** 23L0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0648	5629 East Northport Groundwater	Ground Water	December 8, 2023 10:45 am	12/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 14:37	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*146 %*	*25-150*
Surrogate: M5PFHxA	*142 %*	*25-150*
Surrogate: M4PFHpA	*145 %*	*25-150*
Surrogate: M3PFHxS	*137 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*133 %*	*25-150*
Surrogate: M6PFDA	*128 %*	*25-150*
Surrogate: M7PFUdA	*102 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*92.3 %*	*25-150*
Surrogate: M2PFTeDA	*58.4 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.91 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*100 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*116 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*106 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*72.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*66.7 %*	*25-150*
Surrogate: M2-6:2 FTS	*86.9 %*	*25-200*
Surrogate: M2-8:2 FTS	*80.8 %*	*25-200*
Surrogate: M9PFNA	*127 %*	*25-150*
Surrogate: M2-4:2 FTS	*102 %*	*25-150*
Surrogate: d-N-MeFOSA	*90.0 %*	*25-150*
Surrogate: d-N-EtFOSA	*83.0 %*	*25-150*
Surrogate: M3HFPO-DA	*162 %*	*25-150*
Surrogate: d9-N-EtFOSE	*31.6 %*	*25-150*
Surrogate: d7-N-MeFOSE	*49.3 %*	*25-150*

Analytical Batch Summary

Batch ID: BL30828 **Preparation Method:** EPA 3535A **Prepared By:** moa

YORK Sample ID	Client Sample ID	Preparation Date
23L0648-01	EN1-M-120823	12/13/23
BL30828-BLK1	Blank	12/13/23
BL30828-BS1	LCS	12/13/23
BL30828-MS1	Matrix Spike	12/13/23
BL30828-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30957 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23L0648-01	EN1-M-120823	12/14/23
BL30957-BLK1	Blank	12/14/23
BL30957-BS1	LCS	12/14/23
BL30957-BS2	LCS	12/14/23
BL30957-MS1	Matrix Spike	12/14/23
BL30957-MSD1	Matrix Spike Dup	12/14/23

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30828 - EPA 3535A											
Blank (BL30828-BLK1)								Prepared: 12/13/2023 Analyzed: 12/14/2023			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*2.29*		*"*	*4.00*		*57.3*	*36.6-118*				
LCS (BL30828-BS1)								Prepared: 12/13/2023 Analyzed: 12/14/2023			
1,4-Dioxane	4.34	0.300	ug/L	4.00		108	50-130				
Surrogate: 1,4-Dioxane-d8	*2.18*		*"*	*4.00*		*54.4*	*36.6-118*				
Matrix Spike (BL30828-MS1)	*Source sample: 23L0648-01 (EN1-M-120823)							Prepared: 12/13/2023 Analyzed: 12/14/2023			
1,4-Dioxane	4.29	0.300	ug/L	4.00	0.304	99.6	50-130				
Surrogate: 1,4-Dioxane-d8	*2.28*		*"*	*4.00*		*57.0*	*50-130*				
Matrix Spike Dup (BL30828-MSD1)	*Source sample: 23L0648-01 (EN1-M-120823)							Prepared: 12/13/2023 Analyzed: 12/14/2023			
1,4-Dioxane	4.51	0.300	ug/L	4.00	0.304	105	50-130		5.09	30	
Surrogate: 1,4-Dioxane-d8	*2.14*		*"*	*4.00*		*53.4*	*50-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Blank (BL30957-BLK1)											Prepared: 12/14/2023 Analyzed: 12/18/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*55.3*		"	*38.8*		*142*	*25-150*				
Surrogate: M5PFHxA	*60.6*		"	*41.7*		*145*	*25-150*				
Surrogate: M4PFHpA	*59.1*		"	*41.7*		*142*	*25-150*				
Surrogate: M3PFHxS	*60.1*		"	*39.5*		*152*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.1*		"	*41.7*		*135*	*25-150*				
Surrogate: M6PFDA	*29.0*		"	*20.8*		*139*	*25-150*				
Surrogate: M7PFUdA	*26.2*		"	*20.8*		*126*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Blank (BL30957-BLK1)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*27.6*		*ng/L*	*20.8*		*133*	*25-150*				
Surrogate: M2PFTeDA	*16.2*		*"*	*20.8*		*78.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.53*		*"*	*167*		*2.71*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*45.7*		*"*	*39.9*		*115*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*44.6*		*"*	*83.3*		*53.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.9*		*"*	*41.7*		*122*	*10-150*				
Surrogate: d3-N-MeFOSAA	*88.8*		*"*	*83.3*		*107*	*25-150*				
Surrogate: d5-N-EtFOSAA	*97.6*		*"*	*83.3*		*117*	*25-150*				
Surrogate: M2-6:2 FTS	*65.2*		*"*	*79.2*		*82.4*	*25-200*				
Surrogate: M2-8:2 FTS	*80.1*		*"*	*80.0*		*100*	*25-200*				
Surrogate: M9PFNA	*30.3*		*"*	*20.8*		*146*	*25-150*				
Surrogate: M2-4:2 FTS	*73.5*		*"*	*78.2*		*94.0*	*25-150*				
Surrogate: d-N-MeFOSA	*39.3*		*"*	*41.7*		*94.2*	*25-150*				
Surrogate: d-N-EtFOSA	*53.2*		*"*	*41.7*		*128*	*25-150*				
Surrogate: M3HFPO-DA	*274*		*"*	*167*		*164*	*25-150*				
Surrogate: d9-N-EtFOSE	*221*		*"*	*417*		*53.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*316*		*"*	*417*		*75.8*	*25-150*				
LCS (BL30957-BS1)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	68.4	3.54	ng/L	70.8		96.6	50-150				
Perfluorohexanoic acid (PFHxA)	71.5	4.00	"	80.0		89.4	50-150				
Perfluoroheptanoic acid (PFHpA)	67.9	4.00	"	80.0		84.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	68.6	3.66	"	73.2		93.8	50-150				
Perfluorooctanoic acid (PFOA)	69.8	4.00	"	80.0		87.3	50-150				
Perfluorooctanesulfonic acid (PFOS)	69.2	3.72	"	74.4		93.0	50-150				
Perfluorononanoic acid (PFNA)	80.9	4.00	"	80.0		101	50-150				
Perfluorodecanoic acid (PFDA)	84.1	4.00	"	80.0		105	50-150				
Perfluoroundecanoic acid (PFUnA)	77.2	4.00	"	80.0		96.6	50-150				
Perfluorododecanoic acid (PFDoA)	74.6	4.00	"	80.0		93.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	113	4.00	"	80.0		141	50-150				
Perfluorotetradecanoic acid (PFTA)	75.3	4.00	"	80.0		94.1	50-150				
N-MeFOSAA	70.4	4.00	"	80.0		88.0	50-150				
N-EtFOSAA	74.2	4.00	"	80.0		92.8	50-150				
Perfluoropentanoic acid (PFPeA)	150	8.00	"	160		93.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	83.7	4.00	"	80.0		105	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.2	3.82	"	76.4		94.5	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	64.0	3.86	"	77.2		82.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	314	15.2	"	304		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	309	15.4	"	307		101	50-150				
Perfluoro-n-butanoic acid (PFBA)	113	16.0	"	320		35.2	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	141	7.12	"	142		98.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	149	8.00	"	160		93.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	8.29	8.00	"	160		5.18	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	304	8.00	"	160		190	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	72.7	3.76	"	75.2		96.8	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
LCS (BL30957-BS1)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	289	15.0	ng/L	300		96.2	50-150				
HFPO-DA (Gen-X)	151	16.0	"	160		94.4	50-150				
11CL-PF3OUdS	123	15.1	"	151		81.5	50-150				
9CL-PF3ONS	177	15.0	"	150		119	50-150				
ADONA	141	15.1	"	151		93.0	50-150				
Perfluorododecanesulfonic acid (PFDoS)	45.7	3.88	"	77.6		58.9	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	82.0	3.84	"	76.8		107	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	192	10.0	"	320		59.9	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1700	50.0	"	1600		106	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1640	50.0	"	1600		103	50-150				
N-MeFOSE	733	40.0	"	800		91.7	50-150				
N-MeFOSA	75.8	4.00	"	80.0		94.7	50-150				
N-EtFOSE	808	40.0	"	800		101	50-150				
N-EtFOSA	87.5	4.00	"	80.0		109	50-150				
Surrogate: M3PFBS	*50.0*		"	*38.8*		*129*	*25-150*				
Surrogate: M5PFHxA	*55.6*		"	*41.7*		*133*	*25-150*				
Surrogate: M4PFHpA	*61.7*		"	*41.7*		*148*	*25-150*				
Surrogate: M3PFHxS	*55.8*		"	*39.5*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.7*		"	*41.7*		*136*	*25-150*				
Surrogate: M6PFDA	*29.3*		"	*20.8*		*141*	*25-150*				
Surrogate: M7PFUdA	*28.8*		"	*20.8*		*138*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.8*		"	*20.8*		*129*	*25-150*				
Surrogate: M2PFTeDA	*14.4*		"	*20.8*		*69.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.85*		"	*167*		*1.11*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*55.0*		"	*39.9*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.9*		"	*83.3*		*34.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*51.3*		"	*41.7*		*123*	*10-150*				
Surrogate: d3-N-MeFOSAA	*81.6*		"	*83.3*		*98.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*86.7*		"	*83.3*		*104*	*25-150*				
Surrogate: M2-6:2 FTS	*70.8*		"	*79.2*		*89.5*	*25-200*				
Surrogate: M2-8:2 FTS	*88.5*		"	*80.0*		*111*	*25-200*				
Surrogate: M9PFNA	*26.3*		"	*20.8*		*127*	*25-150*				
Surrogate: M2-4:2 FTS	*77.3*		"	*78.2*		*98.9*	*25-150*				
Surrogate: d-N-MeFOSA	*46.6*		"	*41.7*		*112*	*25-150*				
Surrogate: d-N-EtFOSA	*44.9*		"	*41.7*		*108*	*25-150*				
Surrogate: M3HFPO-DA	*257*		"	*167*		*154*	*25-150*				
Surrogate: d9-N-EtFOSE	*222*		"	*417*		*53.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*321*		"	*417*		*77.0*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
LCS (BL30957-BS2)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	14.3	3.54	ng/L	14.2		101	50-150				
Perfluorohexanoic acid (PFHxA)	15.3	4.00	"	16.0		95.5	50-150				
Perfluoroheptanoic acid (PFHpA)	13.1	4.00	"	16.0		81.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.2	3.66	"	14.6		104	50-150				
Perfluorooctanoic acid (PFOA)	14.8	4.00	"	16.0		92.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	18.6	3.72	"	14.9		125	50-150				
Perfluorononanoic acid (PFNA)	16.8	4.00	"	16.0		105	50-150				
Perfluorodecanoic acid (PFDA)	14.4	4.00	"	16.0		90.2	50-150				
Perfluoroundecanoic acid (PFUnA)	16.5	4.00	"	16.0		103	50-150				
Perfluorododecanoic acid (PFDoA)	17.2	4.00	"	16.0		108	50-150				
Perfluorotridecanoic acid (PFTrDA)	25.0	4.00	"	16.0		156	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	16.0	4.00	"	16.0		100	50-150				
N-MeFOSAA	19.0	4.00	"	16.0		119	50-150				
N-EtFOSAA	17.0	4.00	"	16.0		106	50-150				
Perfluoropentanoic acid (PFPeA)	32.5	8.00	"	32.0		102	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	19.2	4.00	"	16.0		120	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	17.7	3.82	"	15.3		116	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	12.4	3.86	"	15.4		80.3	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	67.5	15.2	"	60.8		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	71.6	15.4	"	61.4		117	50-150				
Perfluoro-n-butanoic acid (PFBA)	23.6	16.0	"	64.0		36.9	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	30.1	7.12	"	28.5		106	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	24.4	8.00	"	32.0		76.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.38	8.00	"	32.0		4.31	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	69.8	8.00	"	32.0		218	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	14.9	3.76	"	15.0		99.2	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	67.9	15.0	"	60.0		113	50-150				
HFPO-DA (Gen-X)	30.4	16.0	"	32.0		95.1	50-150				
11CL-PF3OUdS	28.0	15.1	"	30.2		92.5	50-150				
9CL-PF3ONS	39.1	15.0	"	29.9		131	50-150				
ADONA	31.1	15.1	"	30.2		103	50-150				
Perfluorododecanesulfonic acid (PFDoS)	8.18	3.88	"	15.5		52.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	21.6	3.84	"	15.4		141	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	42.0	10.0	"	64.0		65.7	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	356	50.0	"	320		111	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	362	50.0	"	320		113	50-150				
N-MeFOSE	177	40.0	"	160		111	50-150				
N-MeFOSA	20.3	4.00	"	16.0		127	50-150				
N-EtFOSE	191	40.0	"	160		119	50-150				
N-EtFOSA	18.9	4.00	"	16.0		118	50-150				
Surrogate: M3PFBS	*54.6*		"	*38.8*		*141*	*25-150*				
Surrogate: M5PFHxA	*60.4*		"	*41.7*		*145*	*25-150*				
Surrogate: M4PFHpA	*67.6*		"	*41.7*		*162*	*25-150*				
Surrogate: M3PFHxS	*59.9*		"	*39.5*		*152*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.2*		"	*41.7*		*132*	*25-150*				
Surrogate: M6PFDA	*29.6*		"	*20.8*		*142*	*25-150*				
Surrogate: M7PFUdA	*25.0*		"	*20.8*		*120*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
LCS (BL30957-BS2)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*22.4*		*ng/L*	*20.8*		*108*	*25-150*				
Surrogate: M2PFTeDA	*11.4*		*"*	*20.8*		*54.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.93*		*"*	*167*		*1.16*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.8*		*"*	*39.9*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*29.0*		*"*	*83.3*		*34.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.6*		*"*	*41.7*		*129*	*10-150*				
Surrogate: d3-N-MeFOSAA	*85.4*		*"*	*83.3*		*103*	*25-150*				
Surrogate: d5-N-EtFOSAA	*86.0*		*"*	*83.3*		*103*	*25-150*				
Surrogate: M2-6:2 FTS	*71.7*		*"*	*79.2*		*90.5*	*25-200*				
Surrogate: M2-8:2 FTS	*88.5*		*"*	*80.0*		*111*	*25-200*				
Surrogate: M9PFNA	*29.0*		*"*	*20.8*		*139*	*25-150*				
Surrogate: M2-4:2 FTS	*74.3*		*"*	*78.2*		*95.1*	*25-150*				
Surrogate: d-N-MeFOSA	*40.5*		*"*	*41.7*		*97.2*	*25-150*				
Surrogate: d-N-EtFOSA	*47.8*		*"*	*41.7*		*115*	*25-150*				
Surrogate: M3HFPO-DA	*264*		*"*	*167*		*158*	*25-150*				
Surrogate: d9-N-EtFOSE	*165*		*"*	*417*		*39.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*246*		*"*	*417*		*59.0*	*25-150*				
Matrix Spike (BL30957-MS1)	*Source sample: 23L0648-01 (EN1-M-120823)							Prepared: 12/14/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	38.6	1.77	ng/L	35.4	0.709	107	25-150				
Perfluorohexanoic acid (PFHxA)	47.8	2.00	"	40.0	5.71	105	25-150				
Perfluoroheptanoic acid (PFHpA)	39.1	2.00	"	40.0	2.11	92.4	25-150				
Perfluorohexanesulfonic acid (PFHxS)	44.8	1.83	"	36.6	9.08	97.7	25-150				
Perfluorooctanoic acid (PFOA)	44.1	2.00	"	40.0	5.34	96.9	25-150				
Perfluorooctanesulfonic acid (PFOS)	41.5	1.86	"	37.2	ND	112	25-150				
Perfluorononanoic acid (PFNA)	48.6	2.00	"	40.0	ND	121	25-150				
Perfluorodecanoic acid (PFDA)	37.8	2.00	"	40.0	ND	94.5	25-150				
Perfluoroundecanoic acid (PFUnA)	40.5	2.00	"	40.0	ND	101	25-150				
Perfluorododecanoic acid (PFDoA)	39.0	2.00	"	40.0	ND	97.6	25-150				
Perfluorotridecanoic acid (PFTrDA)	63.6	2.00	"	40.0	ND	159	25-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	45.4	2.00	"	40.0	ND	114	25-150				
N-MeFOSAA	39.9	2.00	"	40.0	ND	99.6	25-150				
N-EtFOSAA	40.8	2.00	"	40.0	ND	102	25-150				
Perfluoropentanoic acid (PFPeA)	87.5	4.00	"	80.0	5.41	103	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	47.0	2.00	"	40.0	ND	117	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	40.7	1.91	"	38.2	ND	107	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	33.6	1.93	"	38.6	ND	87.1	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	170	7.60	"	152	ND	112	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	179	7.68	"	154	ND	116	25-150				
Perfluoro-n-butanoic acid (PFBA)	75.2	8.00	"	160	ND	47.0	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	79.7	3.56	"	71.2	ND	112	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	85.4	4.00	"	80.0	ND	107	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.01	4.00	"	80.0	ND	2.51	25-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	144	4.00	"	80.0	ND	180	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	39.6	1.88	"	37.6	ND	105	25-150				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Matrix Spike (BL30957-MS1)	*Source sample: 23L0648-01 (EN1-M-120823)							Prepared: 12/14/2023 Analyzed: 12/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	158	7.50	ng/L	150	ND	106	25-150				
HFPO-DA (Gen-X)	85.6	8.00	"	80.0	ND	107	25-150				
11CL-PF3OUdS	55.8	7.56	"	75.6	ND	73.8	25-150				
9CL-PF3ONS	86.9	7.48	"	74.8	ND	116	25-150				
ADONA	69.6	7.56	"	75.6	ND	92.1	25-150				
Perfluorododecanesulfonic acid (PFDoS)	22.8	1.94	"	38.8	ND	58.9	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	46.0	1.92	"	38.4	ND	120	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	90.7	5.00	"	160	ND	56.7	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	893	25.0	"	800	ND	112	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	832	25.0	"	800	ND	104	25-150				
N-MeFOSE	449	20.0	"	400	ND	112	25-150				
N-MeFOSA	39.2	2.00	"	40.0	ND	98.0	25-150				
N-EtFOSE	473	20.0	"	400	ND	118	25-150				
N-EtFOSA	54.7	2.00	"	40.0	ND	137	25-150				
Surrogate: M3PFBS	*26.8*		"	*19.4*		*138*	*25-150*				
Surrogate: M5PFHxA	*26.3*		"	*20.8*		*126*	*25-150*				
Surrogate: M4PFHpA	*27.7*		"	*20.8*		*133*	*25-150*				
Surrogate: M3PFHxS	*27.8*		"	*19.8*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*26.9*		"	*20.8*		*129*	*25-150*				
Surrogate: M6PFDA	*14.8*		"	*10.4*		*142*	*25-150*				
Surrogate: M7PFUdA	*12.6*		"	*10.4*		*121*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*10.9*		"	*10.4*		*105*	*25-150*				
Surrogate: M2PFTeDA	*5.72*		"	*10.4*		*55.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.25*		"	*83.5*		*1.50*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.3*		"	*20.0*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*25.8*		"	*41.6*		*62.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*24.5*		"	*20.8*		*117*	*10-150*				
Surrogate: d3-N-MeFOSAA	*38.1*		"	*41.6*		*91.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*36.8*		"	*41.6*		*88.3*	*25-150*				
Surrogate: M2-6:2 FTS	*34.9*		"	*39.6*		*88.1*	*25-200*				
Surrogate: M2-8:2 FTS	*36.7*		"	*40.0*		*91.8*	*25-200*				
Surrogate: M9PFNA	*11.2*		"	*10.4*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*42.6*		"	*39.1*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*22.3*		"	*20.8*		*107*	*25-150*				
Surrogate: d-N-EtFOSA	*17.7*		"	*20.8*		*85.0*	*25-150*				
Surrogate: M3HFPO-DA	*123*		"	*83.5*		*147*	*25-150*				
Surrogate: d9-N-EtFOSE	*77.0*		"	*208*		*36.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*111*		"	*208*		*53.3*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BL30957 - EPA 1633 Prep

Matrix Spike Dup (BL30957-MSD1) *Source sample: 23L0648-01 (EN1-M-120823) Prepared: 12/14/2023 Analyzed: 12/18/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Perfluorobutanesulfonic acid (PFBS)	37.8	1.77	ng/L	35.4	0.709	105	25-150		2.26	35	
Perfluorohexanoic acid (PFHxA)	ND	2.00	"	40.0	5.71	NR	25-150	Low Bias		35	
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"	40.0	2.11	NR	25-150	Low Bias		35	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"	36.6	9.08	NR	25-150	Low Bias		35	
Perfluorooctanoic acid (PFOA)	ND	2.00	"	40.0	5.34	NR	25-150	Low Bias		35	
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"	37.2	ND		25-150	Low Bias		35	
Perfluorononanoic acid (PFNA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluorodecanoic acid (PFDA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluorododecanoic acid (PFDoA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
N-MeFOSAA	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
N-EtFOSAA	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluoropentanoic acid (PFPeA)	86.3	4.00	"	80.0	5.41	101	25-150		1.35	35	
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"	40.0	ND		25-150	Low Bias		35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"	38.2	ND		25-150	Low Bias		35	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"	38.6	ND		25-150	Low Bias		35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	"	152	ND		25-150	Low Bias		35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	"	154	ND		25-150	Low Bias		35	
Perfluoro-n-butanoic acid (PFBA)	159	8.00	"	160	ND	99.6	25-150		71.8	35	Non-dir.
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	79.8	3.56	"	71.2	ND	112	25-150		0.0345	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	229	4.00	"	80.0	ND	286	25-150	High Bias	91.3	30	Non-dir.
Perfluoro-4-oxapentanoic acid (PFMPA)	118	4.00	"	80.0	ND	147	25-150		193	30	Non-dir.
Perfluoro-5-oxahexanoic acid (PFMBA)	44.0	4.00	"	80.0	ND	55.0	25-150		106	30	Non-dir.
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"	37.6	ND		25-150	Low Bias		30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	125	7.50	"	150	ND	83.6	25-150		23.2	30	
HFPO-DA (Gen-X)	112	8.00	"	80.0	ND	140	25-150		26.9	30	
11CL-PF3OUdS	ND	7.56	"	75.6	ND		25-150	Low Bias		30	
9CL-PF3ONS	ND	7.48	"	74.8	ND		25-150	Low Bias		30	
ADONA	ND	7.56	"	75.6	ND		25-150	Low Bias		30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"	38.8	ND		25-150	Low Bias		30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"	38.4	ND		25-150	Low Bias		30	
3-Perfluoropropyl propanoic acid (FPrPA)	115	5.00	"	160	ND	72.2	25-150		24.0	30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"	800	ND		25-150	Low Bias		30	
3-Perfluoroheptyl propanoic acid (FHpPA)	21.0	25.0	"	800	ND	2.63	25-150	Low Bias	190	30	Non-dir.
N-MeFOSE	ND	20.0	"	400	ND		25-150	Low Bias		30	
N-MeFOSA	ND	2.00	"	40.0	ND		25-150	Low Bias		30	
N-EtFOSE	ND	20.0	"	400	ND		25-150	Low Bias		30	
N-EtFOSA	ND	2.00	"	40.0	ND		25-150	Low Bias		30	
Surrogate: M3PFBS	*0.507*		"	*19.4*		*2.61*	*25-150*				
Surrogate: M5PFHxA	*0.329*		"	*20.8*		*1.58*	*25-150*				
Surrogate: M4PFHpA	*0.0417*		"	*20.8*		*0.200*	*25-150*				
Surrogate: M3PFHxS	*0.00163*		"	*19.8*		*0.00825*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*0.00516*		"	*20.8*		*0.0248*	*25-150*				
Surrogate: M6PFDA	*0.00801*		"	*10.4*		*0.0770*	*25-150*				
Surrogate: M7PFUdA	*0.00188*		"	*10.4*		*0.0181*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Matrix Spike Dup (BL30957-MSD1)	*Source sample: 23L0648-01 (EN1-M-120823)								Prepared: 12/14/2023 Analyzed: 12/18/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.00636*		*ng/L*	*10.4*		*0.0611*	*25-150*				
Surrogate: M2PFTeDA	*0.00234*		*"*	*10.4*		*0.0225*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*24.2*		*"*	*83.5*		*29.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*0.00991*		*"*	*20.0*		*0.0497*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*14.1*		*"*	*41.6*		*33.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*0.00629*		*"*	*20.8*		*0.0302*	*10-150*				
Surrogate: d3-N-MeFOSAA	*0.730*		*"*	*41.6*		*1.75*	*25-150*				
Surrogate: d5-N-EtFOSAA	*0.151*		*"*	*41.6*		*0.363*	*25-150*				
Surrogate: M2-6:2 FTS	*0.00192*		*"*	*39.6*		*0.00484*	*25-200*				
Surrogate: M2-8:2 FTS	*0.00659*		*"*	*40.0*		*0.0165*	*25-200*				
Surrogate: M9PFNA	*0.00467*		*"*	*10.4*		*0.0449*	*25-150*				
Surrogate: M2-4:2 FTS	*0.165*		*"*	*39.1*		*0.423*	*25-150*				
Surrogate: d-N-MeFOSA	*0.316*		*"*	*20.8*		*1.52*	*25-150*				
Surrogate: d-N-EtFOSA	*0.642*		*"*	*20.8*		*3.08*	*25-150*				
Surrogate: M3HFPO-DA	*3.74*		*"*	*83.5*		*4.48*	*25-150*				
Surrogate: d9-N-EtFOSE	*0.245*		*"*	*208*		*0.117*	*25-150*				
Surrogate: d7-N-MeFOSE	*0.0963*		*"*	*208*		*0.0462*	*25-150*				

Sample and Data Qualifiers Relating to This Work Order

J — Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L06458

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: DtB Engineers + Architects	Company:	Company:
Address: 330 Crossways Park Dr Woodbury, NY, 11776	Address: 11 Same	Address: 11 Same
Phone.: (516)-364-9890	Phone.:	Phone.:
Contact: Keith Robins	Contact:	Contact:
E-mail: KRobins@dtb-eng.com	E-mail: 11	E-mail: 11

YOUR Project Number: 5629

YOUR Project Name: East North Port Groundwater

YOUR PO#: 5629

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: Cat. B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN1-M-12/8/23	GW	12/8/23 10:45	Full Per & Polyfluoroalkyl Substances (1633) and 1,4 dioxane (8270) low detection (0.249) required	1 500mL Amber, 2 500mL Plastic	1, 2
EN1-M-12/8/23-MS	↓	↓	↓	↓	
EN1-M-12/8/23-MSD	↓	↓	↓	↓	

Comments: analysis is same for all samples on this COC Page

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
(D+B)	12/8/23	Ramon York	12/8/23 1500	Ramon York	12/8/23 19:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time: 12/8/23 19:35 Temperature: 1.3 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/20/2023
Client Project ID: 5629 E. Northport Groundwater 5629
York Project (SDG) No.: 23L0785

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/20/2023
Client Project ID: 5629 E. Northport Groundwater 5629
York Project (SDG) No.: 23L0785

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 12, 2023 and listed below. The project was identified as your project: **5629 E. Northport Groundwater 5629**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0785-01	EN7-m-12-11-23	Ground Water	12/11/2023	12/12/2023
23L0785-02	Field- Blank-12-11-23	Ground Water	12/11/2023	12/12/2023
23L0785-03	Blino-Duplicate-12-11-23	Ground Water	12/11/2023	12/12/2023

General Notes for York Project (SDG) No.: 23L0785

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/20/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID:	EN7-m-12-11-23			York Sample ID:	23L0785-01
York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received	
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 3:00 pm	12/12/2023	

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**5.58**		ug/L	0.300	1	EPA 8270D SIM	12/13/2023 08:23	12/14/2023 14:38	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.3 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**2.79**		ng/L	0.470	1.77	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**19.2**		ng/L	0.350	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**7.00**		ng/L	0.710	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**3.97**		ng/L	0.680	1.83	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	**Perfluorooctanoic acid (PFOA)**	**17.0**		ng/L	0.420	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**14.1**		ng/L	0.820	1.86	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.942**	J	ng/L	0.520	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NJDEP-NY037			
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
2991-50-6	**N-EtFOSAA**	**2.68**		ng/L	1.03	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**8.67**		ng/L	0.230	4.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3	12/19/2023 12:58	12/20/2023 13:49	ESJ
								Certifications: NJDEP-NY037			

Sample Information

Client Sample ID: EN7-m-12-11-23 **York Sample ID:** 23L0785-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 3:00 pm	12/12/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
27619-97-2	**1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**1.37**	J	ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**22.9**		ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/19/2023 12:58	12/20/2023 13:49	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/19/2023 12:58	12/20/2023 13:49	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/19/2023 12:58	12/20/2023 13:49	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/19/2023 12:58	12/20/2023 13:49	ESJ
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1.23**	J	ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/19/2023 12:58	12/20/2023 13:49	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ

Sample Information

Client Sample ID: **EN7-m-12-11-23** **York Sample ID:** **23L0785-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 3:00 pm	12/12/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	12/19/2023 12:58	12/20/2023 13:49	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*124 %*	*25-150*
Surrogate: M5PFHxA	*138 %*	*25-150*
Surrogate: M4PFHpA	*157 %*	*25-150*
Surrogate: M3PFHxS	*138 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*129 %*	*25-150*
Surrogate: M6PFDA	*111 %*	*25-150*
Surrogate: M7PFUdA	*94.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*81.0 %*	*25-150*
Surrogate: M2PFTeDA	*61.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*6.41 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*116 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*131 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*104 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*79.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*89.9 %*	*25-150*
Surrogate: M2-6:2 FTS	*171 %*	*25-200*
Surrogate: M2-8:2 FTS	*119 %*	*25-200*
Surrogate: M9PFNA	*123 %*	*25-150*
Surrogate: M2-4:2 FTS	*310 %*	*25-150*
Surrogate: d-N-MeFOSA	*53.4 %*	*25-150*
Surrogate: d-N-EtFOSA	*52.1 %*	*25-150*
Surrogate: M3HFPO-DA	*137 %*	*25-150*
Surrogate: d9-N-EtFOSE	*39.9 %*	*25-150*
Surrogate: d7-N-MeFOSE	*45.1 %*	*25-150*

Sample Information

Client Sample ID: **Field- Blank-12-11-23** **York Sample ID:** **23L0785-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 2:25 pm	12/12/2023

Sample Information

Client Sample ID: **Field- Blank-12-11-23** **York Sample ID:** **23L0785-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 2:25 pm	12/12/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP-CT005,NELAC-NY10854	12/13/2023 08:23	12/14/2023 14:56	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.470	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.350	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.710	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.680	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.420	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.520	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.230	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ

Sample Information

Client Sample ID: Field- Blank-12-11-23 **York Sample ID:** 23L0785-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 2:25 pm	12/12/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 18:22	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 18:22	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 18:22	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 18:22	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 18:22	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 18:22	ESJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Field- Blank-12-11-23** **York Sample ID:** **23L0785-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 2:25 pm	12/12/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	*131 %*			*25-150*						
	Surrogate: M5PFHxA	*140 %*			*25-150*						
	Surrogate: M4PFHpA	*152 %*			*25-150*						
	Surrogate: M3PFHxS	*148 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*131 %*			*25-150*						
	Surrogate: M6PFDA	*130 %*			*25-150*						
	Surrogate: M7PFUdA	*116 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*115 %*			*25-150*						
	Surrogate: M2PFTeDA	*55.3 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.57 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*128 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*39.2 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*125 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*88.9 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*97.3 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*88.9 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*91.6 %*			*25-200*						
	Surrogate: M9PFNA	*133 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*94.2 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*118 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*72.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*141 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*42.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*52.1 %*			*25-150*						

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0785-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 12:01 am	12/12/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0785-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 12:01 am	12/12/2023

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**5.44**		ug/L	0.300	1	EPA 8270D SIM	12/13/2023 08:23	12/14/2023 15:13	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*70.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.50**		ng/L	0.470	1.77	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**21.9**		ng/L	0.350	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**10.2**		ng/L	0.710	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**6.13**		ng/L	0.680	1.83	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	**Perfluorooctanoic acid (PFOA)**	**17.7**		ng/L	0.420	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**13.3**		ng/L	0.820	1.86	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.02**	J	ng/L	0.520	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NJDEP-NY037			
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
2991-50-6	**N-EtFOSAA**	**2.71**		ng/L	1.03	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**16.4**		ng/L	0.230	4.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NJDEP-NY037			
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NJDEP-NY037			
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3	12/14/2023 09:34	12/18/2023 19:11	ESJ
								Certifications: NJDEP-NY037			

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0785-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 12:01 am	12/12/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	**1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**1.55**	J	ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 19:11	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 19:11	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 19:11	ESJ
863090-89-5	**Perfluoro-5-oxahexanoic acid (PFMBA)**	**0.669**	J	ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/14/2023 09:34	12/18/2023 19:11	ESJ
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1.19**	J	ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/14/2023 09:34	12/18/2023 19:11	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	12/14/2023 09:34	12/18/2023 19:11	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*106 %*	*25-150*

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0785-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0785	5629 E. Northport Groundwater 5629	Ground Water	December 11, 2023 12:01 am	12/12/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	*127 %*			*25-150*						
	Surrogate: M4PFHpA	*117 %*			*25-150*						
	Surrogate: M3PFHxS	*118 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*120 %*			*25-150*						
	Surrogate: M6PFDA	*117 %*			*25-150*						
	Surrogate: M7PFUdA	*90.0 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*77.9 %*			*25-150*						
	Surrogate: M2PFTeDA	*57.5 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.66 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*123 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*23.7 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*108 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*83.6 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*96.7 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*215 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*116 %*			*25-200*						
	Surrogate: M9PFNA	*107 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*276 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*67.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*57.3 %*			*25-150*						
	Surrogate: M3HFPO-DA	*118 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*45.3 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*51.1 %*			*25-150*						

Analytical Batch Summary

Batch ID: BL30828 **Preparation Method:** EPA 3535A **Prepared By:** moa

YORK Sample ID	Client Sample ID	Preparation Date
23L0785-01	EN7-m-12-11-23	12/13/23
23L0785-02	Field- Blank-12-11-23	12/13/23
23L0785-03	Blino-Duplicate-12-11-23	12/13/23
BL30828-BLK1	Blank	12/13/23
BL30828-BS1	LCS	12/13/23
BL30828-MS1	Matrix Spike	12/13/23
BL30828-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30957 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23L0785-01	EN7-m-12-11-23	12/14/23
23L0785-02	Field- Blank-12-11-23	12/14/23
23L0785-03	Blino-Duplicate-12-11-23	12/14/23
BL30957-BLK1	Blank	12/14/23
BL30957-BS1	LCS	12/14/23
BL30957-BS2	LCS	12/14/23
BL30957-MS1	Matrix Spike	12/14/23

Batch ID: BL31387 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23L0785-01RE1	EN7-m-12-11-23	12/19/23
BL31387-BLK1	Blank	12/20/23
BL31387-BS1	LCS	12/20/23
BL31387-BS2	LCS	12/20/23

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30828 - EPA 3535A											
Blank (BL30828-BLK1)									Prepared: 12/13/2023 Analyzed: 12/14/2023		
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*2.29*		*"*	*4.00*		*57.3*	*36.6-118*				
LCS (BL30828-BS1)									Prepared: 12/13/2023 Analyzed: 12/14/2023		
1,4-Dioxane	4.34	0.300	ug/L	4.00		108	50-130				
Surrogate: 1,4-Dioxane-d8	*2.18*		*"*	*4.00*		*54.4*	*36.6-118*				
Matrix Spike (BL30828-MS1)	*Source sample: 23L0648-01 (Matrix Spike)								Prepared: 12/13/2023 Analyzed: 12/14/2023		
1,4-Dioxane	4.29	0.300	ug/L	4.00	0.304	99.6	50-130				
Surrogate: 1,4-Dioxane-d8	*2.28*		*"*	*4.00*		*57.0*	*50-130*				
Matrix Spike Dup (BL30828-MSD1)	*Source sample: 23L0648-01 (Matrix Spike Dup)								Prepared: 12/13/2023 Analyzed: 12/14/2023		
1,4-Dioxane	4.51	0.300	ug/L	4.00	0.304	105	50-130		5.09	30	
Surrogate: 1,4-Dioxane-d8	*2.14*		*"*	*4.00*		*53.4*	*50-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Blank (BL30957-BLK1)											Prepared: 12/14/2023 Analyzed: 12/18/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*55.3*		*"*	*38.8*		*142*	*25-150*				
Surrogate: M5PFHxA	*60.6*		*"*	*41.7*		*145*	*25-150*				
Surrogate: M4PFHpA	*59.1*		*"*	*41.7*		*142*	*25-150*				
Surrogate: M3PFHxS	*60.1*		*"*	*39.5*		*152*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.1*		*"*	*41.7*		*135*	*25-150*				
Surrogate: M6PFDA	*29.0*		*"*	*20.8*		*139*	*25-150*				
Surrogate: M7PFUdA	*26.2*		*"*	*20.8*		*126*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Blank (BL30957-BLK1)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*27.6*		*ng/L*	*20.8*		*133*	*25-150*				
Surrogate: M2PFTeDA	*16.2*		*"*	*20.8*		*78.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.53*		*"*	*167*		*2.71*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*45.7*		*"*	*39.9*		*115*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*44.6*		*"*	*83.3*		*53.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.9*		*"*	*41.7*		*122*	*10-150*				
Surrogate: d3-N-MeFOSAA	*88.8*		*"*	*83.3*		*107*	*25-150*				
Surrogate: d5-N-EtFOSAA	*97.6*		*"*	*83.3*		*117*	*25-150*				
Surrogate: M2-6:2 FTS	*65.2*		*"*	*79.2*		*82.4*	*25-200*				
Surrogate: M2-8:2 FTS	*80.1*		*"*	*80.0*		*100*	*25-200*				
Surrogate: M9PFNA	*30.3*		*"*	*20.8*		*146*	*25-150*				
Surrogate: M2-4:2 FTS	*73.5*		*"*	*78.2*		*94.0*	*25-150*				
Surrogate: d-N-MeFOSA	*39.3*		*"*	*41.7*		*94.2*	*25-150*				
Surrogate: d-N-EtFOSA	*53.2*		*"*	*41.7*		*128*	*25-150*				
Surrogate: M3HFPO-DA	*274*		*"*	*167*		*164*	*25-150*				
Surrogate: d9-N-EtFOSE	*221*		*"*	*417*		*53.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*316*		*"*	*417*		*75.8*	*25-150*				
LCS (BL30957-BS1)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	68.4	3.54	ng/L	70.8		96.6	50-150				
Perfluorohexanoic acid (PFHxA)	71.5	4.00	"	80.0		89.4	50-150				
Perfluoroheptanoic acid (PFHpA)	67.9	4.00	"	80.0		84.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	68.6	3.66	"	73.2		93.8	50-150				
Perfluorooctanoic acid (PFOA)	69.8	4.00	"	80.0		87.3	50-150				
Perfluorooctanesulfonic acid (PFOS)	69.2	3.72	"	74.4		93.0	50-150				
Perfluorononanoic acid (PFNA)	80.9	4.00	"	80.0		101	50-150				
Perfluorodecanoic acid (PFDA)	84.1	4.00	"	80.0		105	50-150				
Perfluoroundecanoic acid (PFUnA)	77.2	4.00	"	80.0		96.6	50-150				
Perfluorododecanoic acid (PFDoA)	74.6	4.00	"	80.0		93.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	113	4.00	"	80.0		141	50-150				
Perfluorotetradecanoic acid (PFTA)	75.3	4.00	"	80.0		94.1	50-150				
N-MeFOSAA	70.4	4.00	"	80.0		88.0	50-150				
N-EtFOSAA	74.2	4.00	"	80.0		92.8	50-150				
Perfluoropentanoic acid (PFPeA)	150	8.00	"	160		93.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	83.7	4.00	"	80.0		105	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.2	3.82	"	76.4		94.5	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	64.0	3.86	"	77.2		82.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	314	15.2	"	304		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	309	15.4	"	307		101	50-150				
Perfluoro-n-butanoic acid (PFBA)	113	16.0	"	320		35.2	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	141	7.12	"	142		98.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	149	8.00	"	160		93.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	8.29	8.00	"	160		5.18	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	304	8.00	"	160		190	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	72.7	3.76	"	75.2		96.8	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
LCS (BL30957-BS1)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	289	15.0	ng/L	300		96.2	50-150				
HFPO-DA (Gen-X)	151	16.0	"	160		94.4	50-150				
11CL-PF3OUdS	123	15.1	"	151		81.5	50-150				
9CL-PF3ONS	177	15.0	"	150		119	50-150				
ADONA	141	15.1	"	151		93.0	50-150				
Perfluorododecanesulfonic acid (PFDoS)	45.7	3.88	"	77.6		58.9	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	82.0	3.84	"	76.8		107	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	192	10.0	"	320		59.9	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1700	50.0	"	1600		106	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1640	50.0	"	1600		103	50-150				
N-MeFOSE	733	40.0	"	800		91.7	50-150				
N-MeFOSA	75.8	4.00	"	80.0		94.7	50-150				
N-EtFOSE	808	40.0	"	800		101	50-150				
N-EtFOSA	87.5	4.00	"	80.0		109	50-150				
Surrogate: M3PFBS	*50.0*		"	*38.8*		*129*	*25-150*				
Surrogate: M5PFHxA	*55.6*		"	*41.7*		*133*	*25-150*				
Surrogate: M4PFHpA	*61.7*		"	*41.7*		*148*	*25-150*				
Surrogate: M3PFHxS	*55.8*		"	*39.5*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.7*		"	*41.7*		*136*	*25-150*				
Surrogate: M6PFDA	*29.3*		"	*20.8*		*141*	*25-150*				
Surrogate: M7PFUdA	*28.8*		"	*20.8*		*138*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.8*		"	*20.8*		*129*	*25-150*				
Surrogate: M2PFTeDA	*14.4*		"	*20.8*		*69.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.85*		"	*167*		*1.11*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*55.0*		"	*39.9*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.9*		"	*83.3*		*34.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*51.3*		"	*41.7*		*123*	*10-150*				
Surrogate: d3-N-MeFOSAA	*81.6*		"	*83.3*		*98.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*86.7*		"	*83.3*		*104*	*25-150*				
Surrogate: M2-6:2 FTS	*70.8*		"	*79.2*		*89.5*	*25-200*				
Surrogate: M2-8:2 FTS	*88.5*		"	*80.0*		*111*	*25-200*				
Surrogate: M9PFNA	*26.3*		"	*20.8*		*127*	*25-150*				
Surrogate: M2-4:2 FTS	*77.3*		"	*78.2*		*98.9*	*25-150*				
Surrogate: d-N-MeFOSA	*46.6*		"	*41.7*		*112*	*25-150*				
Surrogate: d-N-EtFOSA	*44.9*		"	*41.7*		*108*	*25-150*				
Surrogate: M3HFPO-DA	*257*		"	*167*		*154*	*25-150*				
Surrogate: d9-N-EtFOSE	*222*		"	*417*		*53.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*321*		"	*417*		*77.0*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
LCS (BL30957-BS2)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	14.3	3.54	ng/L	14.2		101	50-150				
Perfluorohexanoic acid (PFHxA)	15.3	4.00	"	16.0		95.5	50-150				
Perfluoroheptanoic acid (PFHpA)	13.1	4.00	"	16.0		81.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.2	3.66	"	14.6		104	50-150				
Perfluorooctanoic acid (PFOA)	14.8	4.00	"	16.0		92.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	18.6	3.72	"	14.9		125	50-150				
Perfluorononanoic acid (PFNA)	16.8	4.00	"	16.0		105	50-150				
Perfluorodecanoic acid (PFDA)	14.4	4.00	"	16.0		90.2	50-150				
Perfluoroundecanoic acid (PFUnA)	16.5	4.00	"	16.0		103	50-150				
Perfluorododecanoic acid (PFDoA)	17.2	4.00	"	16.0		108	50-150				
Perfluorotridecanoic acid (PFTrDA)	25.0	4.00	"	16.0		156	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	16.0	4.00	"	16.0		100	50-150				
N-MeFOSAA	19.0	4.00	"	16.0		119	50-150				
N-EtFOSAA	17.0	4.00	"	16.0		106	50-150				
Perfluoropentanoic acid (PFPeA)	32.5	8.00	"	32.0		102	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	19.2	4.00	"	16.0		120	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	17.7	3.82	"	15.3		116	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	12.4	3.86	"	15.4		80.3	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	67.5	15.2	"	60.8		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	71.6	15.4	"	61.4		117	50-150				
Perfluoro-n-butanoic acid (PFBA)	23.6	16.0	"	64.0		36.9	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	30.1	7.12	"	28.5		106	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	24.4	8.00	"	32.0		76.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.38	8.00	"	32.0		4.31	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	69.8	8.00	"	32.0		218	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	14.9	3.76	"	15.0		99.2	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	67.9	15.0	"	60.0		113	50-150				
HFPO-DA (Gen-X)	30.4	16.0	"	32.0		95.1	50-150				
11CL-PF3OUdS	28.0	15.1	"	30.2		92.5	50-150				
9CL-PF3ONS	39.1	15.0	"	29.9		131	50-150				
ADONA	31.1	15.1	"	30.2		103	50-150				
Perfluorododecanesulfonic acid (PFDoS)	8.18	3.88	"	15.5		52.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	21.6	3.84	"	15.4		141	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	42.0	10.0	"	64.0		65.7	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	356	50.0	"	320		111	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	362	50.0	"	320		113	50-150				
N-MeFOSE	177	40.0	"	160		111	50-150				
N-MeFOSA	20.3	4.00	"	16.0		127	50-150				
N-EtFOSE	191	40.0	"	160		119	50-150				
N-EtFOSA	18.9	4.00	"	16.0		118	50-150				
Surrogate: M3PFBS	*54.6*		"	*38.8*		*141*	*25-150*				
Surrogate: M5PFHxA	*60.4*		"	*41.7*		*145*	*25-150*				
Surrogate: M4PFHpA	*67.6*		"	*41.7*		*162*	*25-150*				
Surrogate: M3PFHxS	*59.9*		"	*39.5*		*152*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.2*		"	*41.7*		*132*	*25-150*				
Surrogate: M6PFDA	*29.6*		"	*20.8*		*142*	*25-150*				
Surrogate: M7PFUdA	*25.0*		"	*20.8*		*120*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
LCS (BL30957-BS2)								Prepared: 12/14/2023 Analyzed: 12/18/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*22.4*		*ng/L*	*20.8*		*108*	*25-150*				
Surrogate: M2PFTeDA	*11.4*		*"*	*20.8*		*54.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.93*		*"*	*167*		*1.16*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.8*		*"*	*39.9*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*29.0*		*"*	*83.3*		*34.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.6*		*"*	*41.7*		*129*	*10-150*				
Surrogate: d3-N-MeFOSAA	*85.4*		*"*	*83.3*		*103*	*25-150*				
Surrogate: d5-N-EtFOSAA	*86.0*		*"*	*83.3*		*103*	*25-150*				
Surrogate: M2-6:2 FTS	*71.7*		*"*	*79.2*		*90.5*	*25-200*				
Surrogate: M2-8:2 FTS	*88.5*		*"*	*80.0*		*111*	*25-200*				
Surrogate: M9PFNA	*29.0*		*"*	*20.8*		*139*	*25-150*				
Surrogate: M2-4:2 FTS	*74.3*		*"*	*78.2*		*95.1*	*25-150*				
Surrogate: d-N-MeFOSA	*40.5*		*"*	*41.7*		*97.2*	*25-150*				
Surrogate: d-N-EtFOSA	*47.8*		*"*	*41.7*		*115*	*25-150*				
Surrogate: M3HFPO-DA	*264*		*"*	*167*		*158*	*25-150*				
Surrogate: d9-N-EtFOSE	*165*		*"*	*417*		*39.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*246*		*"*	*417*		*59.0*	*25-150*				
Matrix Spike (BL30957-MS1)	*Source sample: 23L0648-01 (Matrix Spike)							Prepared: 12/14/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	38.6	1.77	ng/L	35.4	0.709	107	25-150				
Perfluorohexanoic acid (PFHxA)	47.8	2.00	"	40.0	5.71	105	25-150				
Perfluoroheptanoic acid (PFHpA)	39.1	2.00	"	40.0	2.11	92.4	25-150				
Perfluorohexanesulfonic acid (PFHxS)	44.8	1.83	"	36.6	9.08	97.7	25-150				
Perfluorooctanoic acid (PFOA)	44.1	2.00	"	40.0	5.34	96.9	25-150				
Perfluorooctanesulfonic acid (PFOS)	41.5	1.86	"	37.2	ND	112	25-150				
Perfluorononanoic acid (PFNA)	48.6	2.00	"	40.0	ND	121	25-150				
Perfluorodecanoic acid (PFDA)	37.8	2.00	"	40.0	ND	94.5	25-150				
Perfluoroundecanoic acid (PFUnA)	40.5	2.00	"	40.0	ND	101	25-150				
Perfluorododecanoic acid (PFDoA)	39.0	2.00	"	40.0	ND	97.6	25-150				
Perfluorotridecanoic acid (PFTrDA)	63.6	2.00	"	40.0	ND	159	25-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	45.4	2.00	"	40.0	ND	114	25-150				
N-MeFOSAA	39.9	2.00	"	40.0	ND	99.6	25-150				
N-EtFOSAA	40.8	2.00	"	40.0	ND	102	25-150				
Perfluoropentanoic acid (PFPeA)	87.5	4.00	"	80.0	5.41	103	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	47.0	2.00	"	40.0	ND	117	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	40.7	1.91	"	38.2	ND	107	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	33.6	1.93	"	38.6	ND	87.1	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	170	7.60	"	152	ND	112	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	179	7.68	"	154	ND	116	25-150				
Perfluoro-n-butanoic acid (PFBA)	75.2	8.00	"	160	ND	47.0	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	79.7	3.56	"	71.2	ND	112	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	85.4	4.00	"	80.0	ND	107	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.01	4.00	"	80.0	ND	2.51	25-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	144	4.00	"	80.0	ND	180	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	39.6	1.88	"	37.6	ND	105	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30957 - EPA 1633 Prep											
Matrix Spike (BL30957-MS1)	*Source sample: 23L0648-01 (Matrix Spike)							Prepared: 12/14/2023 Analyzed: 12/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	158	7.50	ng/L	150	ND	106	25-150				
HFPO-DA (Gen-X)	85.6	8.00	"	80.0	ND	107	25-150				
11CL-PF3OUdS	55.8	7.56	"	75.6	ND	73.8	25-150				
9CL-PF3ONS	86.9	7.48	"	74.8	ND	116	25-150				
ADONA	69.6	7.56	"	75.6	ND	92.1	25-150				
Perfluorododecanesulfonic acid (PFDoS)	22.8	1.94	"	38.8	ND	58.9	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	46.0	1.92	"	38.4	ND	120	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	90.7	5.00	"	160	ND	56.7	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	893	25.0	"	800	ND	112	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	832	25.0	"	800	ND	104	25-150				
N-MeFOSE	449	20.0	"	400	ND	112	25-150				
N-MeFOSA	39.2	2.00	"	40.0	ND	98.0	25-150				
N-EtFOSE	473	20.0	"	400	ND	118	25-150				
N-EtFOSA	54.7	2.00	"	40.0	ND	137	25-150				
Surrogate: M3PFBS	*26.8*		"	*19.4*		*138*	*25-150*				
Surrogate: M5PFHxA	*26.3*		"	*20.8*		*126*	*25-150*				
Surrogate: M4PFHpA	*27.7*		"	*20.8*		*133*	*25-150*				
Surrogate: M3PFHxS	*27.8*		"	*19.8*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*26.9*		"	*20.8*		*129*	*25-150*				
Surrogate: M6PFDA	*14.8*		"	*10.4*		*142*	*25-150*				
Surrogate: M7PFUdA	*12.6*		"	*10.4*		*121*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*10.9*		"	*10.4*		*105*	*25-150*				
Surrogate: M2PFTeDA	*5.72*		"	*10.4*		*55.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.25*		"	*83.5*		*1.50*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.3*		"	*20.0*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*25.8*		"	*41.6*		*62.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*24.5*		"	*20.8*		*117*	*10-150*				
Surrogate: d3-N-MeFOSAA	*38.1*		"	*41.6*		*91.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*36.8*		"	*41.6*		*88.3*	*25-150*				
Surrogate: M2-6:2 FTS	*34.9*		"	*39.6*		*88.1*	*25-200*				
Surrogate: M2-8:2 FTS	*36.7*		"	*40.0*		*91.8*	*25-200*				
Surrogate: M9PFNA	*11.2*		"	*10.4*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*42.6*		"	*39.1*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*22.3*		"	*20.8*		*107*	*25-150*				
Surrogate: d-N-EtFOSA	*17.7*		"	*20.8*		*85.0*	*25-150*				
Surrogate: M3HFPO-DA	*123*		"	*83.5*		*147*	*25-150*				
Surrogate: d9-N-EtFOSE	*77.0*		"	*208*		*36.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*111*		"	*208*		*53.3*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31387 - EPA 1633 Prep											
Blank (BL31387-BLK1)											Prepared & Analyzed: 12/20/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*55.3*		"	*38.8*		*142*	*25-150*				
Surrogate: M5PFHxA	*51.6*		"	*41.7*		*124*	*25-150*				
Surrogate: M4PFHpA	*76.3*		"	*41.7*		*183*	*25-150*				
Surrogate: M3PFHxS	*66.6*		"	*39.5*		*169*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.3*		"	*41.7*		*135*	*25-150*				
Surrogate: M6PFDA	*31.4*		"	*20.8*		*151*	*25-150*				
Surrogate: M7PFUdA	*31.4*		"	*20.8*		*151*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31387 - EPA 1633 Prep											
Blank (BL31387-BLK1)								Prepared & Analyzed: 12/20/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.7*		*ng/L*	*20.8*		*128*	*25-150*				
Surrogate: M2PFTeDA	*18.1*		*"*	*20.8*		*86.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.56*		*"*	*167*		*0.937*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*55.3*		*"*	*39.9*		*139*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*12.1*		*"*	*83.3*		*14.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*55.8*		*"*	*41.7*		*134*	*10-150*				
Surrogate: d3-N-MeFOSAA	*85.8*		*"*	*83.3*		*103*	*25-150*				
Surrogate: d5-N-EtFOSAA	*96.7*		*"*	*83.3*		*116*	*25-150*				
Surrogate: M2-6:2 FTS	*84.9*		*"*	*79.2*		*107*	*25-200*				
Surrogate: M2-8:2 FTS	*88.6*		*"*	*80.0*		*111*	*25-200*				
Surrogate: M9PFNA	*25.1*		*"*	*20.8*		*121*	*25-150*				
Surrogate: M2-4:2 FTS	*98.0*		*"*	*78.2*		*125*	*25-150*				
Surrogate: d-N-MeFOSA	*36.6*		*"*	*41.7*		*87.8*	*25-150*				
Surrogate: d-N-EtFOSA	*34.4*		*"*	*41.7*		*82.4*	*25-150*				
Surrogate: M3HFPO-DA	*214*		*"*	*167*		*128*	*25-150*				
Surrogate: d9-N-EtFOSE	*267*		*"*	*417*		*64.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*266*		*"*	*417*		*63.8*	*25-150*				
LCS (BL31387-BS1)								Prepared & Analyzed: 12/20/2023			
Perfluorobutanesulfonic acid (PFBS)	69.0	3.54	ng/L	70.8		97.5	50-150				
Perfluorohexanoic acid (PFHxA)	70.8	4.00	"	80.0		88.5	50-150				
Perfluoroheptanoic acid (PFHpA)	59.5	4.00	"	80.0		74.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	67.8	3.66	"	73.2		92.7	50-150				
Perfluorooctanoic acid (PFOA)	71.7	4.00	"	80.0		89.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	70.7	3.72	"	74.4		95.0	50-150				
Perfluorononanoic acid (PFNA)	78.7	4.00	"	80.0		98.4	50-150				
Perfluorodecanoic acid (PFDA)	81.5	4.00	"	80.0		102	50-150				
Perfluoroundecanoic acid (PFUnA)	78.6	4.00	"	80.0		98.3	50-150				
Perfluorododecanoic acid (PFDoA)	75.4	4.00	"	80.0		94.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	100	4.00	"	80.0		125	50-150				
Perfluorotetradecanoic acid (PFTA)	72.2	4.00	"	80.0		90.2	50-150				
N-MeFOSAA	84.1	4.00	"	80.0		105	50-150				
N-EtFOSAA	78.9	4.00	"	80.0		98.6	50-150				
Perfluoropentanoic acid (PFPeA)	150	8.00	"	160		94.0	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	77.5	4.00	"	80.0		96.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.1	3.82	"	76.4		94.4	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	55.9	3.86	"	77.2		72.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	299	15.2	"	304		98.4	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	338	15.4	"	307		110	50-150				
Perfluoro-n-butanoic acid (PFBA)	107	16.0	"	320		33.4	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	149	7.12	"	142		104	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	111	8.00	"	160		69.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	9.73	8.00	"	160		6.08	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	462	8.00	"	160		289	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	71.1	3.76	"	75.2		94.6	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31387 - EPA 1633 Prep											
LCS (BL31387-BS1)								Prepared & Analyzed: 12/20/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	301	15.0	ng/L	300		100	50-150				
HFPO-DA (Gen-X)	165	16.0	"	160		103	50-150				
11CL-PF3OUdS	136	15.1	"	151		89.7	50-150				
9CL-PF3ONS	190	15.0	"	150		127	50-150				
ADONA	178	15.1	"	151		118	50-150				
Perfluorododecanesulfonic acid (PFDoS)	42.7	3.88	"	77.6		55.0	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	73.8	3.84	"	76.8		96.1	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	153	10.0	"	320		47.7	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	1630	50.0	"	1600		102	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	2040	50.0	"	1600		128	50-150				
N-MeFOSE	781	40.0	"	800		97.7	50-150				
N-MeFOSA	94.7	4.00	"	80.0		118	50-150				
N-EtFOSE	674	40.0	"	800		84.3	50-150				
N-EtFOSA	122	4.00	"	80.0		153	50-150	High Bias			
Surrogate: M3PFBS	*42.1*		"	*38.8*		*109*	*25-150*				
Surrogate: M5PFHxA	*49.2*		"	*41.7*		*118*	*25-150*				
Surrogate: M4PFHpA	*69.3*		"	*41.7*		*166*	*25-150*				
Surrogate: M3PFHxS	*57.7*		"	*39.5*		*146*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*53.5*		"	*41.7*		*128*	*25-150*				
Surrogate: M6PFDA	*28.2*		"	*20.8*		*136*	*25-150*				
Surrogate: M7PFUdA	*25.0*		"	*20.8*		*120*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*24.8*		"	*20.8*		*119*	*25-150*				
Surrogate: M2PFTeDA	*17.1*		"	*20.8*		*82.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.68*		"	*167*		*1.01*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*59.8*		"	*39.9*		*150*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*9.97*		"	*83.3*		*12.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.9*		"	*41.7*		*122*	*10-150*				
Surrogate: d3-N-MeFOSAA	*75.9*		"	*83.3*		*91.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*80.3*		"	*83.3*		*96.4*	*25-150*				
Surrogate: M2-6:2 FTS	*81.8*		"	*79.2*		*103*	*25-200*				
Surrogate: M2-8:2 FTS	*81.5*		"	*80.0*		*102*	*25-200*				
Surrogate: M9PFNA	*27.7*		"	*20.8*		*133*	*25-150*				
Surrogate: M2-4:2 FTS	*85.0*		"	*78.2*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*35.1*		"	*41.7*		*84.2*	*25-150*				
Surrogate: d-N-EtFOSA	*33.2*		"	*41.7*		*79.5*	*25-150*				
Surrogate: M3HFPO-DA	*205*		"	*167*		*123*	*25-150*				
Surrogate: d9-N-EtFOSE	*208*		"	*417*		*49.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*240*		"	*417*		*57.6*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31387 - EPA 1633 Prep											
LCS (BL31387-BS2)							Prepared & Analyzed: 12/20/2023				
Perfluorobutanesulfonic acid (PFBS)	15.4	3.54	ng/L	14.2		108	50-150				
Perfluorohexanoic acid (PFHxA)	16.9	4.00	"	16.0		106	50-150				
Perfluoroheptanoic acid (PFHpA)	13.2	4.00	"	16.0		82.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.8	3.66	"	14.6		108	50-150				
Perfluorooctanoic acid (PFOA)	17.0	4.00	"	16.0		106	50-150				
Perfluorooctanesulfonic acid (PFOS)	15.7	3.72	"	14.9		106	50-150				
Perfluorononanoic acid (PFNA)	15.6	4.00	"	16.0		97.4	50-150				
Perfluorodecanoic acid (PFDA)	18.8	4.00	"	16.0		117	50-150				
Perfluoroundecanoic acid (PFUnA)	17.8	4.00	"	16.0		111	50-150				
Perfluorododecanoic acid (PFDoA)	15.8	4.00	"	16.0		98.6	50-150				
Perfluorotridecanoic acid (PFTrDA)	25.7	4.00	"	16.0		161	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	18.3	4.00	"	16.0		114	50-150				
N-MeFOSAA	17.0	4.00	"	16.0		106	50-150				
N-EtFOSAA	16.5	4.00	"	16.0		103	50-150				
Perfluoropentanoic acid (PFPeA)	34.7	8.00	"	32.0		108	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	17.1	4.00	"	16.0		107	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	17.4	3.82	"	15.3		114	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	14.3	3.86	"	15.4		92.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	67.5	15.2	"	60.8		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	71.9	15.4	"	61.4		117	50-150				
Perfluoro-n-butanoic acid (PFBA)	35.2	16.0	"	64.0		54.9	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	33.8	7.12	"	28.5		119	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	21.9	8.00	"	32.0		68.4	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.82	8.00	"	32.0		5.69	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	100	8.00	"	32.0		313	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	15.7	3.76	"	15.0		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	70.0	15.0	"	60.0		117	50-150				
HFPO-DA (Gen-X)	31.4	16.0	"	32.0		98.0	50-150				
11CL-PF3OUdS	33.0	15.1	"	30.2		109	50-150				
9CL-PF3ONS	45.9	15.0	"	29.9		153	50-150	High Bias			
ADONA	45.0	15.1	"	30.2		149	50-150				
Perfluorododecanesulfonic acid (PFDoS)	12.1	3.88	"	15.5		77.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	19.1	3.84	"	15.4		125	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	25.0	10.0	"	64.0		39.1	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	402	50.0	"	320		126	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	499	50.0	"	320		156	50-150	High Bias			
N-MeFOSE	200	40.0	"	160		125	50-150				
N-MeFOSA	21.2	4.00	"	16.0		132	50-150				
N-EtFOSE	171	40.0	"	160		107	50-150				
N-EtFOSA	23.0	4.00	"	16.0		144	50-150				
Surrogate: M3PFBS	*41.5*		"	*38.8*		*107*	*25-150*				
Surrogate: M5PFHxA	*42.9*		"	*41.7*		*103*	*25-150*				
Surrogate: M4PFHpA	*72.3*		"	*41.7*		*173*	*25-150*				
Surrogate: M3PFHxS	*62.5*		"	*39.5*		*158*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*50.8*		"	*41.7*		*122*	*25-150*				
Surrogate: M6PFDA	*26.2*		"	*20.8*		*126*	*25-150*				
Surrogate: M7PFUdA	*27.4*		"	*20.8*		*132*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31387 - EPA 1633 Prep											
LCS (BL31387-BS2)								Prepared & Analyzed: 12/20/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*25.6*		*ng/L*	*20.8*		*123*	*25-150*				
Surrogate: M2PFTeDA	*15.4*		*"*	*20.8*		*73.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.59*		*"*	*167*		*0.949*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*61.0*		*"*	*39.9*		*153*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*9.84*		*"*	*83.3*		*11.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*55.7*		*"*	*41.7*		*134*	*10-150*				
Surrogate: d3-N-MeFOSAA	*91.0*		*"*	*83.3*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*101*		*"*	*83.3*		*121*	*25-150*				
Surrogate: M2-6:2 FTS	*83.3*		*"*	*79.2*		*105*	*25-200*				
Surrogate: M2-8:2 FTS	*82.4*		*"*	*80.0*		*103*	*25-200*				
Surrogate: M9PFNA	*29.4*		*"*	*20.8*		*141*	*25-150*				
Surrogate: M2-4:2 FTS	*76.8*		*"*	*78.2*		*98.3*	*25-150*				
Surrogate: d-N-MeFOSA	*37.4*		*"*	*41.7*		*89.8*	*25-150*				
Surrogate: d-N-EtFOSA	*35.5*		*"*	*41.7*		*85.2*	*25-150*				
Surrogate: M3HFPO-DA	*178*		*"*	*167*		*107*	*25-150*				
Surrogate: d9-N-EtFOSE	*216*		*"*	*417*		*51.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*251*		*"*	*417*		*60.2*	*25-150*				

Sample and Data Qualifiers Relating to This Work Order

J — Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L0785

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: D+B Engineers + Architects	Company:	Company:
Address: 330 Crossway Park Dr, Woodbury, NY	Address: //	Address: //
Phone: 516-364-9890	Phone.: //	Phone.: Same
Contact: Keith Robins	Contact: Same	Contact:
E-mail: KRobins@dbeng.com	E-mail: //	E-mail: //

YOUR Project Number: 5629

YOUR Project Name: E. Northport Groundwater

YOUR PO#: 5629

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
RUSH - Five Day	
Standard (6-9 Day)	X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Seascare

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: ____

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN7-M-12/11/23	GW	12/11/23	Full Per & Poly Fluoroalkyl	1500mL amb	
Field-Blank-12/11/23		2:25	Substances (1633) 3	2 500mL Plastic	
Blind-Duplicate-12/11/23		0000	1,4 Dioxane (8270) low detection (0.2µg/L)		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ____

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction
Field Filtered
Lab to Filter

Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/11/23	KBarb York	12/12/23 9:50 AM	KBarb York	12/12/23 18:15
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					12/12/23 18:15 / 1.7 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/20/2023
Client Project ID: 5629 E. Northport Groundwater
York Project (SDG) No.: 23L0806

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/20/2023
Client Project ID: 5629 E. Northport Groundwater
York Project (SDG) No.: 23L0806

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 12, 2023 and listed below. The project was identified as your project: **5629 E. Northport Groundwater**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0806-01	EN7-m-12-11-23	Ground Water	12/11/2023	12/12/2023
23L0806-02	Field-Blank-12-11-23	Ground Water	12/11/2023	12/12/2023
23L0806-03	Blino-Duplicate-12-11-23	Ground Water	12/11/2023	12/12/2023

General Notes for York Project (SDG) No.: 23L0806

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/20/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: EN7-m-12-11-23 **York Sample ID:** 23L0806-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 14:35	SMA

Sample Information

Client Sample ID: EN7-m-12-11-23 **York Sample ID:** 23L0806-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 14:35	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.2 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.2 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.182**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: EN7-m-12-11-23 **York Sample ID:** 23L0806-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**37.2**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**128**		mg/L	1.11	1	SM 2340B-2011	12/19/2023 08:49	12/19/2023 19:07	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**0.643**		mg/L	0.278	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**8.39**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**12.1**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**43.0**	M-BS	mg/L	0.556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN7-m-12-11-23 **York Sample ID:** 23L0806-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**1.17**		ug/L	1.11	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.85**		ug/L	1.11	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/19/2023 14:12	12/19/2023 14:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**61.3**		mg/L	0.690	5.00	10	EPA 300.0	12/19/2023 00:03	12/19/2023 00:03	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0756**		mg/L	0.0500	1	EPA 300.0	12/13/2023 04:40	12/13/2023 04:40	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**25.7**		mg/L	1.00	1	EPA 300.0	12/13/2023 04:40	12/13/2023 04:40	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN7-m-12-11-23 **York Sample ID:** 23L0806-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**200**	CONT-02	mg/L	2.0	1	SM 2320B	12/15/2023 06:17	12/18/2023 13:54	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**8.37**		mg/L	0.0500	1	SM 4500-NH3 D	12/13/2023 16:47	12/14/2023 10:20	TCD
							Certifications:			

Bicarbonate

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**204**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**333**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: Field-Blank-12-11-23 **York Sample ID:** 23L0806-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 2:25 pm	12/12/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: **Field-Blank-12-11-23** **York Sample ID:** **23L0806-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 2:25 pm	12/12/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
67-66-3	**Chloroform**	**1.0**		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:04	SMA

Sample Information

Client Sample ID: Field-Blank-12-11-23 **York Sample ID:** 23L0806-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 2:25 pm	12/12/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:04	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.1 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.7 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.1 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**0.132**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: Field-Blank-12-11-23 **York Sample ID:** 23L0806-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 2:25 pm	12/12/2023

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	ND		mg/L	1.11	1	SM 2340B-2011	12/19/2023 08:49	12/19/2023 19:09	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	ND		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: Field-Blank-12-11-23 **York Sample ID:** 23L0806-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 2:25 pm	12/12/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/19/2023 14:12	12/19/2023 14:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**0.487**	J	mg/L	0.0690	0.500	1	EPA 300.0	12/13/2023 03:47	12/13/2023 03:47	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	12/13/2023 03:47	12/13/2023 03:47	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	1.00	1	EPA 300.0	12/13/2023 03:47	12/13/2023 03:47	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**3.0**	CONT-02	mg/L	2.0	1	SM 2320B	12/15/2023 06:17	12/18/2023 13:54	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **Field-Blank-12-11-23** **York Sample ID:** **23L0806-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 2:25 pm	12/12/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.206**		mg/L	0.0500	1	SM 4500-NH3 D Certifications:	12/13/2023 16:47	12/14/2023 10:20	TCD

Bicarbonate **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**3.00**	CONT-02	mg/L	2.00	1	SM 2310B Certifications:	12/19/2023 09:11	12/19/2023 14:01	VR

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**11.0**		mg/L	10.0	1	SM 2540C-2015 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04	12/13/2023 18:06	12/13/2023 18:06	AA

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0806-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 09:00	12/15/2023 15:32	SMA

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0806-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/15/2023 15:32	SMA

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0806-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:32	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/15/2023 09:00	12/15/2023 15:32	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.2 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.1 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.5 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.174**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**37.0**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**127**		mg/L	1.11	1	SM 2340B-2011	12/19/2023 08:49	12/19/2023 19:12	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Sample Information

Client Sample ID: Blino-Duplicate-12-11-23 **York Sample ID:** 23L0806-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**0.619**		mg/L	0.278	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**8.32**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**12.0**		mg/L	0.0556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**42.6**	M-BS	mg/L	0.556	1	EPA 6010D	12/19/2023 08:42	12/19/2023 19:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:45	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:45	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.71**		ug/L	1.11	1	EPA 6020B	12/19/2023 08:53	12/19/2023 15:45	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0806-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/19/2023 14:12	12/19/2023 14:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**58.8**		mg/L	0.690	5.00	10	EPA 300.0	12/19/2023 00:13	12/19/2023 00:13	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0697**		mg/L	0.0500	1	EPA 300.0	12/13/2023 04:50	12/13/2023 04:50	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**23.3**		mg/L	1.00	1	EPA 300.0	12/13/2023 04:50	12/13/2023 04:50	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**200**	CONT-02	mg/L	2.0	1	SM 2320B	12/15/2023 06:17	12/18/2023 13:54	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**8.54**		mg/L	0.0500	1	SM 4500-NH3 D	12/13/2023 16:47	12/14/2023 10:20	TCD
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **Blino-Duplicate-12-11-23** **York Sample ID:** **23L0806-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0806	5629 E. Northport Groundwater	Ground Water	December 11, 2023 3:00 pm	12/12/2023

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**196**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**288**		mg/L	10.0	1	SM 2540C-2015	12/13/2023 18:06	12/13/2023 18:06	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Analytical Batch Summary

Batch ID: BL30821 **Preparation Method:** Analysis Preparation **Prepared By:** TCD

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/13/23
23L0806-02	Field-Blank-12-11-23	12/13/23
23L0806-03	Blino-Duplicate-12-11-23	12/13/23
BL30821-BLK1	Blank	12/13/23
BL30821-BS1	LCS	12/13/23
BL30821-DUP1	Duplicate	12/13/23
BL30821-MS1	Matrix Spike	12/13/23
BL30821-MSD1	Matrix Spike Dup	12/13/23

Batch ID: BL30871 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/13/23
23L0806-02	Field-Blank-12-11-23	12/13/23
23L0806-03	Blino-Duplicate-12-11-23	12/13/23
BL30871-BLK1	Blank	12/13/23
BL30871-BS1	LCS	12/13/23
BL30871-DUP1	Duplicate	12/13/23
BL30871-DUP2	Duplicate	12/13/23
BL30871-MS1	Matrix Spike	12/13/23
BL30871-MS2	Matrix Spike	12/13/23
BL30871-MSD1	Matrix Spike Dup	12/13/23
BL30871-MSD2	Matrix Spike Dup	12/13/23

Batch ID: BL30902 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/13/23
23L0806-02	Field-Blank-12-11-23	12/13/23
23L0806-03	Blino-Duplicate-12-11-23	12/13/23
BL30902-BLK1	Blank	12/13/23
BL30902-DUP1	Duplicate	12/13/23
BL30902-DUP2	Duplicate	12/13/23

Batch ID: BL31005 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/15/23
23L0806-02	Field-Blank-12-11-23	12/15/23
23L0806-03	Blino-Duplicate-12-11-23	12/15/23
BL31005-DUP1	Duplicate	12/15/23
BL31005-SRM1	Reference	12/15/23

Batch ID: BL31043 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/15/23
23L0806-02	Field-Blank-12-11-23	12/15/23
23L0806-03	Blino-Duplicate-12-11-23	12/15/23
BL31043-BLK1	Blank	12/15/23
BL31043-BS1	LCS	12/15/23
BL31043-BSD1	LCS Dup	12/15/23

Batch ID: BL31260 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/19/23
23L0806-02	Field-Blank-12-11-23	12/19/23
23L0806-03	Blino-Duplicate-12-11-23	12/19/23
BL31260-BLK1	Blank	12/19/23
BL31260-BS1	LCS	12/19/23
BL31260-DUP1	Duplicate	12/19/23
BL31260-MS1	Matrix Spike	12/19/23
BL31260-PS1	Post Spike	12/19/23

Batch ID: BL31264 **Preparation Method:** EPA 200.7 **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/19/23
23L0806-02	Field-Blank-12-11-23	12/19/23
23L0806-03	Blino-Duplicate-12-11-23	12/19/23

Batch ID: BL31266 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/19/23
23L0806-02	Field-Blank-12-11-23	12/19/23
23L0806-03	Blino-Duplicate-12-11-23	12/19/23
BL31266-BLK1	Blank	12/19/23
BL31266-BS1	LCS	12/19/23
BL31266-DUP1	Duplicate	12/19/23
BL31266-MS1	Matrix Spike	12/19/23

Batch ID: BL31274 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/19/23
23L0806-02	Field-Blank-12-11-23	12/19/23
23L0806-03	Blino-Duplicate-12-11-23	12/19/23
BL31274-BLK1	Blank	12/19/23
BL31274-DUP1	Duplicate	12/19/23

Batch ID: BL31311 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/19/23
23L0806-02	Field-Blank-12-11-23	12/19/23
23L0806-03	Blino-Duplicate-12-11-23	12/19/23
BL31311-BLK1	Blank	12/19/23
BL31311-BLK2	Blank	12/19/23
BL31311-BS1	LCS	12/19/23
BL31311-BS2	LCS	12/19/23

Batch ID: BL31329 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0806-01	EN7-m-12-11-23	12/19/23
23L0806-03	Blino-Duplicate-12-11-23	12/19/23
BL31329-BLK1	Blank	12/18/23
BL31329-BS1	LCS	12/18/23
BL31329-DUP1	Duplicate	12/18/23
BL31329-DUP2	Duplicate	12/18/23
BL31329-MS1	Matrix Spike	12/18/23
BL31329-MS2	Matrix Spike	12/18/23
BL31329-MSD1	Matrix Spike Dup	12/18/23
BL31329-MSD2	Matrix Spike Dup	12/18/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31043 - EPA 5030B											
Blank (BL31043-BLK1)											Prepared & Analyzed: 12/15/2023
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.42*		*"*	*10.0*		*94.2*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.44*		*"*	*10.0*		*94.4*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31043 - EPA 5030B											
LCS (BL31043-BS1)							Prepared & Analyzed: 12/15/2023				
1,1,1-Trichloroethane	10.4		ug/L	10.0		104	75-125				
1,1,2,2-Tetrachloroethane	8.56		"	10.0		85.6	60-140				
1,1,2-Trichloroethane	8.57		"	10.0		85.7	71-129				
1,1-Dichloroethane	9.50		"	10.0		95.0	72-128				
1,1-Dichloroethylene	10.2		"	10.0		102	50-150				
1,2-Dichlorobenzene	8.92		"	10.0		89.2	63-137				
1,2-Dichloroethane	9.13		"	10.0		91.3	68-132				
1,2-Dichloropropane	8.35		"	10.0		83.5	34-166				
1,3-Dichlorobenzene	8.78		"	10.0		87.8	73-127				
1,4-Dichlorobenzene	8.69		"	10.0		86.9	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	10.6		"	10.0		106	64-136				
Bromodichloromethane	8.49		"	10.0		84.9	65-135				
Bromoform	8.55		"	10.0		85.5	71-129				
Bromomethane	7.78		"	10.0		77.8	14-186				
Carbon tetrachloride	10.7		"	10.0		107	73-127				
Chlorobenzene	9.42		"	10.0		94.2	66-134				
Chloroethane	12.0		"	10.0		120	38-162				
Chloroform	10.3		"	10.0		103	67-133				
Chloromethane	9.97		"	10.0		99.7	0.5-204				
cis-1,2-Dichloroethylene	9.63		"	10.0		96.3	70-130				
cis-1,3-Dichloropropylene	8.12		"	10.0		81.2	24-176				
Dibromochloromethane	8.83		"	10.0		88.3	67-133				
Ethyl Benzene	9.55		"	10.0		95.5	59-141				
Methylene chloride	9.12		"	10.0		91.2	60-140				
o-Xylene	8.85		"	10.0		88.5	70-130				
p- & m- Xylenes	16.2		"	20.0		81.0	70-130				
Tetrachloroethylene	7.42		"	10.0		74.2	73-127				
Toluene	9.55		"	10.0		95.5	74-126				
trans-1,2-Dichloroethylene	9.84		"	10.0		98.4	69-131				
trans-1,3-Dichloropropylene	8.04		"	10.0		80.4	50-150				
Trichloroethylene	9.15		"	10.0		91.5	66-134				
Trichlorofluoromethane	12.5		"	10.0		125	48-152				
Vinyl Chloride	11.2		"	10.0		112	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.46*		*"*	*10.0*		*94.6*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.42*		*"*	*10.0*		*94.2*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.40*		*"*	*10.0*		*94.0*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31043 - EPA 5030B											
LCS Dup (BL31043-BSD1)								Prepared & Analyzed: 12/15/2023			
1,1,1-Trichloroethane	10.0		ug/L	10.0		100	75-125		3.43	30	
1,1,2,2-Tetrachloroethane	8.71		"	10.0		87.1	60-140		1.74	30	
1,1,2-Trichloroethane	8.86		"	10.0		88.6	71-129		3.33	30	
1,1-Dichloroethane	9.38		"	10.0		93.8	72-128		1.27	30	
1,1-Dichloroethylene	9.79		"	10.0		97.9	50-150		4.30	30	
1,2-Dichlorobenzene	8.94		"	10.0		89.4	63-137		0.224	30	
1,2-Dichloroethane	9.56		"	10.0		95.6	68-132		4.60	30	
1,2-Dichloropropane	8.32		"	10.0		83.2	34-166		0.360	30	
1,3-Dichlorobenzene	8.75		"	10.0		87.5	73-127		0.342	30	
1,4-Dichlorobenzene	8.65		"	10.0		86.5	63-137		0.461	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	10.5		"	10.0		105	64-136		1.23	30	
Bromodichloromethane	8.52		"	10.0		85.2	65-135		0.353	30	
Bromoform	8.61		"	10.0		86.1	71-129		0.699	30	
Bromomethane	7.39		"	10.0		73.9	14-186		5.14	30	
Carbon tetrachloride	10.3		"	10.0		103	73-127		3.33	30	
Chlorobenzene	9.31		"	10.0		93.1	66-134		1.17	30	
Chloroethane	11.7		"	10.0		117	38-162		2.36	30	
Chloroform	10.2		"	10.0		102	67-133		1.27	30	
Chloromethane	9.69		"	10.0		96.9	0.5-204		2.85	30	
cis-1,2-Dichloroethylene	9.43		"	10.0		94.3	70-130		2.10	30	
cis-1,3-Dichloropropylene	8.09		"	10.0		80.9	24-176		0.370	30	
Dibromochloromethane	8.90		"	10.0		89.0	67-133		0.790	30	
Ethyl Benzene	9.40		"	10.0		94.0	59-141		1.58	30	
Methylene chloride	9.13		"	10.0		91.3	60-140		0.110	30	
o-Xylene	8.80		"	10.0		88.0	70-130		0.567	30	
p- & m- Xylenes	16.0		"	20.0		80.0	70-130		1.30	30	
Tetrachloroethylene	7.21		"	10.0		72.1	73-127	Low Bias	2.87	30	
Toluene	9.34		"	10.0		93.4	74-126		2.22	30	
trans-1,2-Dichloroethylene	9.38		"	10.0		93.8	69-131		4.79	30	
trans-1,3-Dichloropropylene	8.09		"	10.0		80.9	50-150		0.620	30	
Trichloroethylene	8.86		"	10.0		88.6	66-134		3.22	30	
Trichlorofluoromethane	12.1		"	10.0		121	48-152		2.84	30	
Vinyl Chloride	10.7		"	10.0		107	4-196		4.30	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.57*		*"*	*10.0*		*95.7*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.42*		*"*	*10.0*		*94.2*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.31*		*"*	*10.0*		*93.1*	*71-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31260 - EPA 3015A											
Blank (BL31260-BLK1)								Prepared & Analyzed: 12/19/2023			
Aluminum	ND	0.0556	mg/L								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Iron	ND	0.278	"								
Magnesium	ND	0.0556	"								
Potassium	ND	0.0556	"								
Sodium	ND	0.556	"								
LCS (BL31260-BS1)								Prepared & Analyzed: 12/19/2023			
Aluminum	1.86		ug/mL	2.00		93.2	80-120				
Calcium	1.02		"	1.00		102	80-120				
Chromium	0.194		"	0.200		97.1	80-120				
Iron	0.978		"	1.00		97.8	80-120				
Magnesium	0.926		"	1.00		92.6	80-120				
Potassium	0.898		"	1.00		89.8	80-120				
Sodium	1.59		"	1.00		159	80-120	High Bias			
Duplicate (BL31260-DUP1)	*Source sample: 23L0857-05 (Duplicate)							Prepared & Analyzed: 12/19/2023			
Aluminum	0.0853	0.0556	mg/L		ND					20	
Calcium	0.343	0.0556	"		0.0730				130	20	Non-dir.
Chromium	ND	0.00556	"		ND					20	
Iron	ND	0.278	"		ND					20	
Magnesium	ND	0.0556	"		ND					20	
Potassium	ND	0.0556	"		0.0718					20	
Sodium	ND	0.556	"		ND					20	
Matrix Spike (BL31260-MS1)	*Source sample: 23L0857-05 (Matrix Spike)							Prepared & Analyzed: 12/19/2023			
Aluminum	2.07	0.0556	mg/L	2.22	ND	93.4	75-125				
Chromium	0.214	0.00556	"	0.222	ND	96.4	75-125				
Iron	1.09	0.278	"	1.11	ND	98.3	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31260 - EPA 3015A											
Post Spike (BL31260-PS1)	*Source sample: 23L0857-05 (Post Spike)							Prepared & Analyzed: 12/19/2023			
Aluminum	1.88		ug/mL	2.00	-0.000197	94.1	75-125				
Calcium	1.08		"	1.00	0.0657	101	75-125				
Chromium	0.196		"	0.200	0.000972	97.6	75-125				
Iron	0.990		"	1.00	-0.00582	99.0	75-125				
Magnesium	0.954		"	1.00	0.00568	94.8	75-125				
Potassium	0.946		"	1.00	0.0646	88.1	75-125				
Sodium	1.93		"	1.00	0.334	160	75-125	High Bias			

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31266 - EPA 3015A											
Blank (BL31266-BLK1)									Prepared & Analyzed: 12/19/2023		
Arsenic	ND	1.11	ug/L								
Cadmium	ND	0.556	"								
Lead	ND	1.11	"								
LCS (BL31266-BS1)									Prepared & Analyzed: 12/19/2023		
Arsenic	45.8		ug/L	50.0		91.6	80-120				
Cadmium	45.3		"	50.0		90.7	80-120				
Lead	47.0		"	50.0		94.1	80-120				
Duplicate (BL31266-DUP1)	*Source sample: 23L0857-03 (Duplicate)								Prepared & Analyzed: 12/19/2023		
Arsenic	23.5	1.11	ug/L		20.1				15.8	20	
Cadmium	ND	0.556	"		ND					20	
Lead	ND	1.11	"		ND					20	
Matrix Spike (BL31266-MS1)	*Source sample: 23L0857-03 (Matrix Spike)								Prepared & Analyzed: 12/19/2023		
Arsenic	74.0		ug/L	50.0	18.1	112	75-125				
Cadmium	46.5		"	50.0	0.059	93.0	75-125				
Lead	45.2		"	50.0	0.519	89.3	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31311 - EPA 245.1 Mercury											
Blank (BL31311-BLK1)								Prepared & Analyzed: 12/19/2023			
Mercury	ND	0.0002000	mg/L								
Blank (BL31311-BLK2)								Prepared & Analyzed: 12/19/2023			
Mercury	ND	0.0002000	mg/L								
LCS (BL31311-BS1)								Prepared & Analyzed: 12/19/2023			
Mercury	0.001849	0.0002000	mg/L	0.00200		92.4	75-125				
LCS (BL31311-BS2)								Prepared & Analyzed: 12/19/2023			
Mercury	0.001883	0.0002000	mg/L	0.00200		94.2	75-125				

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30871 - EPA 300											
Blank (BL30871-BLK1)								Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL30871-BS1)								Prepared & Analyzed: 12/13/2023			
Chloride	9.90	0.500	mg/L	10.0		99.0	90-110				
Nitrate as N	10.1	0.0500	"	10.0		101	90-110				
Sulfate	10.3	1.00	"	10.0		103	85-115				
Duplicate (BL30871-DUP1)	*Source sample: 23L0829-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Chloride	30.4	0.500	mg/L		30.5				0.275	15	
Nitrate as N	3.25	0.0500	"		3.29				1.24	15	
Sulfate	16.5	1.00	"		16.4				0.0596	15	
Duplicate (BL30871-DUP2)	*Source sample: 23L0829-02 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Chloride	36.1	0.500	mg/L		35.9				0.464	15	
Nitrate as N	4.88	0.0500	"		4.86				0.337	15	
Sulfate	24.2	1.00	"		24.1				0.336	15	
Matrix Spike (BL30871-MS1)	*Source sample: 23L0829-01 (Matrix Spike)							Prepared & Analyzed: 12/13/2023			
Chloride	36.7	0.500	mg/L	10.0	30.5	61.6	85-115	Low Bias			
Nitrate as N	13.1	0.0500	"	10.0	3.29	97.7	90-110				
Sulfate	23.8	1.00	"	10.0	16.4	73.7	85-115	Low Bias			
Matrix Spike (BL30871-MS2)	*Source sample: 23L0829-02 (Matrix Spike)							Prepared & Analyzed: 12/13/2023			
Chloride	41.2	0.500	mg/L	10.0	35.9	52.5	85-115	Low Bias			
Nitrate as N	14.9	0.0500	"	10.0	4.86	100	90-110				
Sulfate	30.4	1.00	"	10.0	24.1	63.1	85-115	Low Bias			

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30871 - EPA 300											
Matrix Spike Dup (BL30871-MSD1)	*Source sample: 23L0829-01 (Matrix Spike Dup)								Prepared & Analyzed: 12/13/2023		
Chloride	36.6	0.500	mg/L	10.0	30.5	61.0	85-115	Low Bias	0.163	20	
Nitrate as N	12.8	0.0500	"	10.0	3.29	94.8	90-110		2.20	200	
Sulfate	23.7	1.00	"	10.0	16.4	72.5	85-115	Low Bias	0.528	20	
Matrix Spike Dup (BL30871-MSD2)	*Source sample: 23L0829-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/13/2023		
Chloride	40.9	0.500	mg/L	10.0	35.9	50.2	85-115	Low Bias	0.555	20	
Nitrate as N	14.8	0.0500	"	10.0	4.86	99.7	90-110		0.523	200	
Sulfate	30.3	1.00	"	10.0	24.1	62.4	85-115	Low Bias	0.215	20	
Batch BL31329 - EPA 300											
Blank (BL31329-BLK1)									Prepared & Analyzed: 12/18/2023		
Chloride	ND	0.500	mg/L								
LCS (BL31329-BS1)									Prepared & Analyzed: 12/18/2023		
Chloride	9.21	0.500	mg/L	10.0		92.1	90-110				
Duplicate (BL31329-DUP1)	*Source sample: 23L1237-04 (Duplicate)								Prepared & Analyzed: 12/18/2023		
Chloride	54.8	0.500	mg/L		54.9				0.0514	15	
Duplicate (BL31329-DUP2)	*Source sample: 23L1245-01 (Duplicate)								Prepared & Analyzed: 12/18/2023		
Chloride	30.2	0.500	mg/L		28.0				7.51	15	
Matrix Spike (BL31329-MS1)	*Source sample: 23L1237-04 (Matrix Spike)								Prepared & Analyzed: 12/18/2023		
Chloride	55.1	0.500	mg/L	10.0	54.9	2.21	85-115	Low Bias			
Matrix Spike (BL31329-MS2)	*Source sample: 23L1245-01 (Matrix Spike)								Prepared & Analyzed: 12/18/2023		
Chloride	30.9	0.500	mg/L	10.0	28.0	28.8	85-115	Low Bias			

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31329 - EPA 300											
Matrix Spike Dup (BL31329-MSD1)	*Source sample: 23L1237-04 (Matrix Spike Dup)								Prepared & Analyzed: 12/18/2023		
Chloride	55.2	0.500	mg/L	10.0	54.9	2.87	85-115	Low Bias	0.120	20	
Matrix Spike Dup (BL31329-MSD2)	*Source sample: 23L1245-01 (Matrix Spike Dup)								Prepared & Analyzed: 12/18/2023		
Chloride	29.0	0.500	mg/L	10.0	28.0	9.52	85-115	Low Bias	6.45	20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30821 - Analysis Preparation											
Blank (BL30821-BLK1)								Prepared: 12/13/2023 Analyzed: 12/14/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L								
LCS (BL30821-BS1)								Prepared: 12/13/2023 Analyzed: 12/14/2023			
Ammonia Nitrogen as NH3	1.21	0.0500	mg/L				85-125				
Duplicate (BL30821-DUP1)	*Source sample: 23L0806-01 (EN7-m-12-11-23)							Prepared: 12/13/2023 Analyzed: 12/14/2023			
Ammonia Nitrogen as NH3	8.78	0.0500	mg/L		8.37				4.78	15	
Matrix Spike (BL30821-MS1)	*Source sample: 23L0806-01 (EN7-m-12-11-23)							Prepared: 12/13/2023 Analyzed: 12/14/2023			
Ammonia Nitrogen as NH3	20.2	0.0500	mg/L		8.37		80-120				
Matrix Spike Dup (BL30821-MSD1)	*Source sample: 23L0806-01 (EN7-m-12-11-23)							Prepared: 12/13/2023 Analyzed: 12/14/2023			
Ammonia Nitrogen as NH3	19.6	0.0500	mg/L		8.37		80-120		3.07	200	
Batch BL31005 - Analysis Preparation											
Duplicate (BL31005-DUP1)	*Source sample: 23L0731-01 (Duplicate)							Prepared: 12/15/2023 Analyzed: 12/18/2023			
Alkalinity, total	950	2.0	mg/L		980				2.49	15	
Reference (BL31005-SRM1)								Prepared: 12/15/2023 Analyzed: 12/18/2023			
Alkalinity, total	76		mg/L	77.2		98.4	90-110				
Batch BL31274 - Analysis Preparation											
Blank (BL31274-BLK1)								Prepared & Analyzed: 12/19/2023			
Bicarbonate	ND	2.00	mg/L								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31274 - Analysis Preparation											
Duplicate (BL31274-DUP1)	*Source sample: 23L0901-07 (Duplicate)								Prepared & Analyzed: 12/19/2023		
Bicarbonate	28.0	2.00	mg/L		32.0				13.3	15	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30902 - % Solids Prep											
Blank (BL30902-BLK1)								Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BL30902-DUP1)	*Source sample: 23L0644-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	180	10.0	mg/L		177				1.68	15	
Duplicate (BL30902-DUP2)	*Source sample: 23L0731-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Total Dissolved Solids	1040	10.0	mg/L		1040				0.288	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23L0806-01	EN7-m-12-11-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0806-02	Field-Blank-12-11-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0806-03	Blino-Duplicate-12-11-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CONT-02	Alkalinity was performed on a sample from a container with head space.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 2310806

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK Page _____ of _____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: D+B Engineers + Architects	Company:	Company:	5629	RUSH - Next Day
Address: 330 Crossways Park Dr Woodbury, NY, 11797	Address: Same	Address: Same	YOUR Project Name E. Northport Groundwater	RUSH - Two Day
Phone.: 516-364-9890	Phone.:	Phone.:		RUSH - Three Day
Contact: Keith Robins	Contact:	Contact:		RUSH - Four Day
E-mail: KRobins@dandb-eng.com	E-mail:	E-mail:	YOUR PO#: 5629	RUSH - Five Day
				Standard (6-9 Day) ✓
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Daniel Sasso

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)
Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN7-M-12/11/23	GW	12/11/23 2:25	TCL, VOCs (624), aluminum, arsenic, cadmium, calcium, chromium, iron, lead, magnesium, mercury, potassium, sodium, alkalinity/bicarbonate, ammonia, Nitrate, Chloride, Sulfate, Dissolved Solids, Hardness	3) 40mL Vial; 2) 250mL Plastic; 2) 500mL Plastic	
Field-Blank-12/11/23	↓	↓	↓	↓	
Blind-Duplicate-12/11/23					

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/11/23	KBakyork	12/12/23 9:50 AM	KBakyork	12/12/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				TC2	12/12/23 18:15 / 1.2 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/21/2023
Client Project ID: 5629 East Northport Ground Water
York Project (SDG) No.: 23L0901

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/21/2023
Client Project ID: 5629 East Northport Ground Water
York Project (SDG) No.: 23L0901

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 13, 2023 and listed below. The project was identified as your project: **5629 East Northport Ground Water**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L0901-01	SW7	Surface Water	12/12/2023	12/13/2023
23L0901-02	SW4	Surface Water	12/12/2023	12/13/2023
23L0901-03	SW1	Surface Water	12/12/2023	12/13/2023
23L0901-04	SW2	Surface Water	12/12/2023	12/13/2023
23L0901-05	SW3	Surface Water	12/12/2023	12/13/2023
23L0901-06	SW5	Surface Water	12/12/2023	12/13/2023
23L0901-07	SW6	Surface Water	12/12/2023	12/13/2023
23L0901-08	Trip Blank	Water	12/12/2023	12/13/2023

General Notes for York Project (SDG) No.: 23L0901

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/21/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SW7 **York Sample ID:** 23L0901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:30 am	12/13/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA

Sample Information

Client Sample ID: SW7 **York Sample ID:** 23L0901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:30 am	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:02	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00	12/19/2023 14:02	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*117 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.9 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*90.7 %*	*71-130*

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**3670**		mg/L	1.11	1	SM 2340B-2011 Certifications:	12/21/2023 08:14 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005	12/21/2023 14:35	CEG

Chloride

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: SW7 **York Sample ID:** 23L0901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:30 am	12/13/2023

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**11200**		mg/L	17.2	125	250	EPA 300.0	12/21/2023 19:27	12/21/2023 19:48	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01R	mg/L	5.00	100	EPA 300.0	12/19/2023 06:31	12/19/2023 06:31	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**1750**		mg/L	100	100	EPA 300.0	12/19/2023 06:31	12/19/2023 06:31	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**92**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.0554**		mg/L	0.0500	1	SM 4500-NH3 D	12/18/2023 07:39	12/18/2023 10:19	TCD
							Certifications:			

Bicarbonate **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**92.0**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**24100**		mg/L	10.0	1	SM 2540C-2015	12/15/2023 21:53	12/15/2023 21:53	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SW4 **York Sample ID:** 23L0901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:50 am	12/13/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA

Sample Information

Client Sample ID: SW4 **York Sample ID:** 23L0901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:50 am	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:29	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00	12/19/2023 14:29	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.2 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.5 %*	*71-130*

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**91.8**		mg/L	1.11	1	SM 2340B-2011 Certifications:	12/21/2023 08:14 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005	12/21/2023 14:39	CEG

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SW4 **York Sample ID:** 23L0901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:50 am	12/13/2023

Chloride

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**102**		mg/L	0.690	5.00	10	EPA 300.0	12/19/2023 01:15	12/19/2023 01:15	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**2.52**		mg/L	0.0500	1	EPA 300.0	12/14/2023 00:31	12/14/2023 00:31	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**22.8**		mg/L	1.00	1	EPA 300.0	12/14/2023 00:31	12/14/2023 00:31	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**44**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.125**		mg/L	0.0500	1	SM 4500-NH3 D	12/18/2023 07:39	12/18/2023 10:19	TCD
							Certifications:			

Bicarbonate

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**44.0**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SW4 **York Sample ID:** 23L0901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 11:50 am	12/13/2023

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**650**		mg/L	10.0	1	SM 2540C-2015	12/15/2023 21:53	12/15/2023 21:53	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SW1 **York Sample ID:** 23L0901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:10 pm	12/13/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 14:56	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: SW1 **York Sample ID:** 23L0901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:10 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 14:56	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00	12/19/2023 14:56	SMA

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SW1 **York Sample ID:** 23L0901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:10 pm	12/13/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*		*78-126*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.5 %*		*84-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.0 %*		*71-130*						

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**76.5**		mg/L	1.11	1	SM 2340B-2011	12/21/2023 08:14	12/21/2023 14:54	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**58.9**		mg/L	0.690	5.00	10	EPA 300.0	12/19/2023 01:25	12/19/2023 01:25	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**2.37**		mg/L	0.0500	1	EPA 300.0	12/14/2023 00:41	12/14/2023 00:41	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**18.1**		mg/L	1.00	1	EPA 300.0	12/14/2023 00:41	12/14/2023 00:41	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**48**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SW1 **York Sample ID:** 23L0901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:10 pm	12/13/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.162**		mg/L	0.0500	1	SM 4500-NH3 D Certifications:	12/18/2023 07:39	12/18/2023 10:19	TCD

Bicarbonate **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**48.0**	CONT-02	mg/L	2.00	1	SM 2310B Certifications:	12/19/2023 09:11	12/19/2023 14:01	VR

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**212**		mg/L	10.0	1	SM 2540C-2015 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04	12/15/2023 21:53	12/15/2023 21:53	AA

Sample Information

Client Sample ID: SW2 **York Sample ID:** 23L0901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:45 pm	12/13/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 09:00	12/18/2023 17:19	SMA

Sample Information

Client Sample ID: SW2 **York Sample ID:** 23L0901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:45 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:19	SMA

Sample Information

Client Sample ID: SW2 **York Sample ID:** 23L0901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:45 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:19	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:19	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:19	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:19	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:19	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*88.7 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.6 %*	*71-130*

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**326**		mg/L	1.11	1	SM 2340B-2011	12/21/2023 08:14	12/21/2023 14:57	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**679**		mg/L	6.90	50.0	100	EPA 300.0	12/19/2023 06:41	12/19/2023 06:41	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**1.45**		mg/L	0.0500	1	EPA 300.0	12/14/2023 01:02	12/14/2023 01:02	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**121**		mg/L	10.0	10	EPA 300.0	12/19/2023 06:41	12/19/2023 06:41	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SW2 **York Sample ID:** 23L0901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 12:45 pm	12/13/2023

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**96**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.124**		mg/L	0.0500	1	SM 4500-NH3 D	12/18/2023 07:39	12/18/2023 10:19	TCD
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**96.0**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**1510**		mg/L	10.0	1	SM 2540C-2015	12/15/2023 21:53	12/15/2023 21:53	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SW3 **York Sample ID:** 23L0901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:00 pm	12/13/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: SW3 **York Sample ID:** 23L0901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:00 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/18/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/18/2023 17:46	SMA

Sample Information

Client Sample ID: SW3 **York Sample ID:** 23L0901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:00 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1	12/18/2023 09:00	12/18/2023 17:46	SMA
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.7 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.2 %*	*71-130*

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**668**		mg/L	1.11	1	SM 2340B-2011	12/21/2023 08:14	12/21/2023 15:00	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**1810**		mg/L	6.90	50.0	100	EPA 300.0	12/19/2023 06:52	12/19/2023 06:52	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: SW3 **York Sample ID:** 23L0901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:00 pm	12/13/2023

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	12/14/2023 01:12	12/14/2023 01:12	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sulfate as SO4 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**273**		mg/L	10.0	10	EPA 300.0	12/19/2023 06:52	12/19/2023 06:52	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**92**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.160**		mg/L	0.0500	1	SM 4500-NH3 D	12/18/2023 07:39	12/18/2023 10:19	TCD
							Certifications:			

Bicarbonate **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**92.0**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**4200**		mg/L	10.0	1	SM 2540C-2015	12/15/2023 21:53	12/15/2023 21:53	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SW5 **York Sample ID:** 23L0901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:15 pm	12/13/2023

Sample Information

Client Sample ID: SW5 **York Sample ID:** 23L0901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:15 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA

Sample Information

Client Sample ID: SW5 **York Sample ID:** 23L0901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:15 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:22	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00	12/19/2023 15:22	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.1 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.5 %*	*71-130*

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**74.1**		mg/L	1.11	1	SM 2340B-2011 Certifications:	12/21/2023 08:14 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005	12/21/2023 15:03	CEG

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SW5 **York Sample ID:** 23L0901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:15 pm	12/13/2023

Chloride

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**51.6**		mg/L	0.690	5.00	10	EPA 300.0	12/19/2023 02:18	12/19/2023 02:18	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**2.16**		mg/L	0.0500	1	EPA 300.0	12/14/2023 01:22	12/14/2023 01:22	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**18.1**		mg/L	1.00	1	EPA 300.0	12/14/2023 01:22	12/14/2023 01:22	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**48**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.0755**		mg/L	0.0500	1	SM 4500-NH3 D	12/18/2023 07:39	12/18/2023 10:19	TCD
							Certifications:			

Bicarbonate

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**48.0**	CONT-02	mg/L	2.00	1	SM 2310B	12/19/2023 09:11	12/19/2023 14:01	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SW5 **York Sample ID:** 23L0901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 1:15 pm	12/13/2023

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**250**		mg/L	10.0	1	SM 2540C-2015	12/15/2023 21:53	12/15/2023 21:53	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SW6 **York Sample ID:** 23L0901-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 2:00 pm	12/13/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1	12/19/2023 09:00	12/19/2023 15:49	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: SW6 **York Sample ID:** 23L0901-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 2:00 pm	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 15:49	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00	12/19/2023 15:49	SMA

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SW6 **York Sample ID:** 23L0901-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 2:00 pm	12/13/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*		*78-126*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.0 %*		*84-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.4 %*		*71-130*						

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**28.4**		mg/L	1.11	1	SM 2340B-2011	12/21/2023 08:14	12/21/2023 15:07	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**22.3**		mg/L	0.0690	0.500	1	EPA 300.0	12/14/2023 01:43	12/14/2023 01:43	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.690**		mg/L	0.0500	1	EPA 300.0	12/14/2023 01:43	12/14/2023 01:43	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**4.69**		mg/L	1.00	1	EPA 300.0	12/14/2023 01:43	12/14/2023 01:43	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**32**	CONT-02	mg/L	2.0	1	SM 2320B	12/19/2023 09:13	12/19/2023 14:00	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SW6 **York Sample ID:** 23L0901-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Surface Water	December 12, 2023 2:00 pm	12/13/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	*** Ammonia Nitrogen as NH3**	**0.147**		mg/L	0.0500	1	SM 4500-NH3 D Certifications:	12/18/2023 07:39	12/18/2023 10:19	TCD

Bicarbonate **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**32.0**	CONT-02	mg/L	2.00	1	SM 2310B Certifications:	12/19/2023 09:11	12/19/2023 14:01	VR

Total Dissolved Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**130**		mg/L	10.0	1	SM 2540C-2015 Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04	12/15/2023 21:53	12/15/2023 21:53	AA

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23L0901-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Water	December 12, 2023 9:30 am	12/13/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 09:00	12/19/2023 11:49	SMA

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0901-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Water	December 12, 2023 9:30 am	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
110-75-8	2-Chloroethylvinyl ether	ND	QL-02, CCVE	ug/L	20	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02, CCVE	ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23L0901-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L0901	5629 East Northport Ground Water	Water	December 12, 2023 9:30 am	12/13/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/19/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/19/2023 11:49	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/19/2023 09:00	12/19/2023 11:49	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.0 %*	*71-130*

Analytical Batch Summary

Batch ID: BL30999 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-02	SW4	12/14/23
23L0901-03	SW1	12/14/23
23L0901-04	SW2	12/14/23
23L0901-05	SW3	12/14/23
23L0901-06	SW5	12/14/23
23L0901-07	SW6	12/14/23
BL30999-BLK1	Blank	12/13/23
BL30999-BS1	LCS	12/13/23
BL30999-DUP1	Duplicate	12/13/23
BL30999-DUP2	Duplicate	12/13/23
BL30999-MS1	Matrix Spike	12/13/23
BL30999-MS2	Matrix Spike	12/13/23
BL30999-MSD1	Matrix Spike Dup	12/13/23
BL30999-MSD2	Matrix Spike Dup	12/13/23

Batch ID: BL31082 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/15/23
23L0901-02	SW4	12/15/23
23L0901-03	SW1	12/15/23
23L0901-04	SW2	12/15/23
23L0901-05	SW3	12/15/23
23L0901-06	SW5	12/15/23
23L0901-07	SW6	12/15/23
BL31082-BLK1	Blank	12/15/23
BL31082-DUP1	Duplicate	12/15/23
BL31082-DUP2	Duplicate	12/15/23

Batch ID: BL31134 **Preparation Method:** Analysis Preparation **Prepared By:** TCD

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/18/23
23L0901-02	SW4	12/18/23
23L0901-03	SW1	12/18/23
23L0901-04	SW2	12/18/23
23L0901-05	SW3	12/18/23
23L0901-06	SW5	12/18/23
23L0901-07	SW6	12/18/23
BL31134-BLK1	Blank	12/18/23
BL31134-BS1	LCS	12/18/23
BL31134-DUP1	Duplicate	12/18/23
BL31134-MS1	Matrix Spike	12/18/23
BL31134-MSD1	Matrix Spike Dup	12/18/23

Batch ID: BL31169 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-04	SW2	12/18/23
23L0901-05	SW3	12/18/23
BL31169-BLK1	Blank	12/18/23
BL31169-BS1	LCS	12/18/23
BL31169-BSD1	LCS Dup	12/18/23
BL31169-MS1	Matrix Spike	12/18/23
BL31169-MSD1	Matrix Spike Dup	12/18/23

Batch ID: BL31274 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/19/23
23L0901-02	SW4	12/19/23
23L0901-03	SW1	12/19/23
23L0901-04	SW2	12/19/23
23L0901-05	SW3	12/19/23
23L0901-06	SW5	12/19/23
23L0901-07	SW6	12/19/23
BL31274-BLK1	Blank	12/19/23
BL31274-DUP1	Duplicate	12/19/23

Batch ID: BL31275 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/19/23
23L0901-02	SW4	12/19/23
23L0901-03	SW1	12/19/23
23L0901-04	SW2	12/19/23
23L0901-05	SW3	12/19/23
23L0901-06	SW5	12/19/23
23L0901-07	SW6	12/19/23
BL31275-DUP1	Duplicate	12/19/23
BL31275-SRM1	Reference	12/19/23

Batch ID: BL31281 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/19/23
23L0901-02	SW4	12/19/23
23L0901-03	SW1	12/19/23
23L0901-06	SW5	12/19/23
23L0901-07	SW6	12/19/23
23L0901-08	Trip Blank	12/19/23
BL31281-BLK1	Blank	12/19/23
BL31281-BS1	LCS	12/19/23

BL31281-BSD1	LCS Dup	12/19/23

Batch ID: BL31329 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-02	SW4	12/19/23
23L0901-03	SW1	12/19/23
23L0901-04	SW2	12/19/23
23L0901-05	SW3	12/19/23
23L0901-06	SW5	12/19/23
BL31329-BLK1	Blank	12/18/23
BL31329-BS1	LCS	12/18/23
BL31329-DUP1	Duplicate	12/18/23
BL31329-DUP2	Duplicate	12/18/23
BL31329-MS1	Matrix Spike	12/18/23
BL31329-MS2	Matrix Spike	12/18/23
BL31329-MSD1	Matrix Spike Dup	12/18/23
BL31329-MSD2	Matrix Spike Dup	12/18/23

Batch ID: BL31330 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/19/23
23L0901-04	SW2	12/19/23
23L0901-05	SW3	12/19/23
BL31330-BLK1	Blank	12/19/23
BL31330-BS1	LCS	12/19/23
BL31330-DUP1	Duplicate	12/19/23
BL31330-DUP2	Duplicate	12/19/23
BL31330-MS1	Matrix Spike	12/19/23
BL31330-MS2	Matrix Spike	12/19/23
BL31330-MSD1	Matrix Spike Dup	12/19/23
BL31330-MSD2	Matrix Spike Dup	12/19/23

Batch ID: BL31468 **Preparation Method:** EPA 200.7 **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/21/23
23L0901-02	SW4	12/21/23
23L0901-03	SW1	12/21/23
23L0901-04	SW2	12/21/23
23L0901-05	SW3	12/21/23
23L0901-06	SW5	12/21/23
23L0901-07	SW6	12/21/23
BL31468-BLK1	Blank	12/21/23
BL31468-DUP1	Duplicate	12/21/23

Batch ID: BL31563 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L0901-01	SW7	12/21/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31169 - EPA 5030B											
Blank (BL31169-BLK1)											Prepared & Analyzed: 12/18/2023
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*78-126*				
Surrogate: SURR: Toluene-d8	*8.91*		*"*	*10.0*		*89.1*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.08*		*"*	*10.0*		*90.8*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31169 - EPA 5030B											
LCS (BL31169-BS1)							Prepared & Analyzed: 12/18/2023				
1,1,1-Trichloroethane	11.2		ug/L	10.0		112	75-125				
1,1,2,2-Tetrachloroethane	9.13		"	10.0		91.3	60-140				
1,1,2-Trichloroethane	9.13		"	10.0		91.3	71-129				
1,1-Dichloroethane	10.5		"	10.0		105	72-128				
1,1-Dichloroethylene	11.7		"	10.0		117	50-150				
1,2-Dichlorobenzene	8.73		"	10.0		87.3	63-137				
1,2-Dichloroethane	11.6		"	10.0		116	68-132				
1,2-Dichloropropane	8.87		"	10.0		88.7	34-166				
1,3-Dichlorobenzene	8.72		"	10.0		87.2	73-127				
1,4-Dichlorobenzene	8.56		"	10.0		85.6	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	11.0		"	10.0		110	64-136				
Bromodichloromethane	9.18		"	10.0		91.8	65-135				
Bromoform	9.77		"	10.0		97.7	71-129				
Bromomethane	11.9		"	10.0		119	14-186				
Carbon tetrachloride	11.5		"	10.0		115	73-127				
Chlorobenzene	9.40		"	10.0		94.0	66-134				
Chloroethane	10.9		"	10.0		109	38-162				
Chloroform	10.7		"	10.0		107	67-133				
Chloromethane	11.3		"	10.0		113	0.5-204				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	70-130				
cis-1,3-Dichloropropylene	8.65		"	10.0		86.5	24-176				
Dibromochloromethane	9.72		"	10.0		97.2	67-133				
Ethyl Benzene	9.28		"	10.0		92.8	59-141				
Methylene chloride	10.7		"	10.0		107	60-140				
o-Xylene	9.12		"	10.0		91.2	70-130				
p- & m- Xylenes	18.7		"	20.0		93.7	70-130				
Tetrachloroethylene	5.46		"	10.0		54.6	73-127	Low Bias			
Toluene	9.26		"	10.0		92.6	74-126				
trans-1,2-Dichloroethylene	10.8		"	10.0		108	69-131				
trans-1,3-Dichloropropylene	8.84		"	10.0		88.4	50-150				
Trichloroethylene	8.77		"	10.0		87.7	66-134				
Trichlorofluoromethane	12.1		"	10.0		121	48-152				
Vinyl Chloride	10.8		"	10.0		108	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*78-126*				
Surrogate: SURR: Toluene-d8	*8.99*		*"*	*10.0*		*89.9*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.20*		*"*	*10.0*		*92.0*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31169 - EPA 5030B											
LCS Dup (BL31169-BSD1)								Prepared & Analyzed: 12/18/2023			
1,1,1-Trichloroethane	11.1		ug/L	10.0		111	75-125		1.16	30	
1,1,2,2-Tetrachloroethane	9.46		"	10.0		94.6	60-140		3.55	30	
1,1,2-Trichloroethane	9.65		"	10.0		96.5	71-129		5.54	30	
1,1-Dichloroethane	10.5		"	10.0		105	72-128		0.191	30	
1,1-Dichloroethylene	11.4		"	10.0		114	50-150		2.78	30	
1,2-Dichlorobenzene	8.77		"	10.0		87.7	63-137		0.457	30	
1,2-Dichloroethane	12.0		"	10.0		120	68-132		3.64	30	
1,2-Dichloropropane	8.86		"	10.0		88.6	34-166		0.113	30	
1,3-Dichlorobenzene	8.65		"	10.0		86.5	73-127		0.806	30	
1,4-Dichlorobenzene	8.52		"	10.0		85.2	63-137		0.468	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	10.9		"	10.0		109	64-136		1.01	30	
Bromodichloromethane	9.31		"	10.0		93.1	65-135		1.41	30	
Bromoform	10.3		"	10.0		103	71-129		5.57	30	
Bromomethane	12.2		"	10.0		122	14-186		2.57	30	
Carbon tetrachloride	11.5		"	10.0		115	73-127		0.173	30	
Chlorobenzene	9.24		"	10.0		92.4	66-134		1.72	30	
Chloroethane	10.9		"	10.0		109	38-162		0.642	30	
Chloroform	10.8		"	10.0		108	67-133		1.02	30	
Chloromethane	11.2		"	10.0		112	0.5-204		0.978	30	
cis-1,2-Dichloroethylene	11.0		"	10.0		110	70-130		0.272	30	
cis-1,3-Dichloropropylene	8.90		"	10.0		89.0	24-176		2.85	30	
Dibromochloromethane	10.1		"	10.0		101	67-133		4.13	30	
Ethyl Benzene	9.08		"	10.0		90.8	59-141		2.18	30	
Methylene chloride	10.6		"	10.0		106	60-140		0.563	30	
o-Xylene	8.96		"	10.0		89.6	70-130		1.77	30	
p- & m- Xylenes	18.3		"	20.0		91.6	70-130		2.21	30	
Tetrachloroethylene	5.30		"	10.0		53.0	73-127	Low Bias	2.97	30	
Toluene	9.09		"	10.0		90.9	74-126		1.85	30	
trans-1,2-Dichloroethylene	10.7		"	10.0		107	69-131		0.746	30	
trans-1,3-Dichloropropylene	9.40		"	10.0		94.0	50-150		6.14	30	
Trichloroethylene	8.45		"	10.0		84.5	66-134		3.72	30	
Trichlorofluoromethane	11.9		"	10.0		119	48-152		1.67	30	
Vinyl Chloride	10.5		"	10.0		105	4-196		2.81	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*78-126*				
Surrogate: SURR: Toluene-d8	*8.90*		*"*	*10.0*		*89.0*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.11*		*"*	*10.0*		*91.1*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31169 - EPA 5030B											
Matrix Spike (BL31169-MS1)	*Source sample: 23L0893-01 (Matrix Spike)							Prepared & Analyzed: 12/18/2023			
1,1,1-Trichloroethane	14.8		ug/L	10.0	0.00	148	52-162				
1,1,2,2-Tetrachloroethane	10.8		"	10.0	0.00	108	46-157				
1,1,2-Trichloroethane	11.0		"	10.0	0.00	110	52-150				
1,1-Dichloroethane	13.8		"	10.0	0.00	138	59-155				
1,1-Dichloroethylene	15.9		"	10.0	0.490	154	0.5-234				
1,2-Dichlorobenzene	10.4		"	10.0	0.00	104	18-190				
1,2-Dichloroethane	14.8		"	10.0	0.00	148	49-155				
1,2-Dichloropropane	11.1		"	10.0	0.00	111	0.5-210				
1,3-Dichlorobenzene	10.4		"	10.0	0.00	104	59-156				
1,4-Dichlorobenzene	10.2		"	10.0	0.00	102	18-190				
2-Chloroethylvinyl ether	0.00		"	10.0	0.00		20-305	Low Bias			
Benzene	14.4		"	10.0	0.00	144	37-151				
Bromodichloromethane	11.4		"	10.0	0.00	114	35-155				
Bromoform	11.5		"	10.0	0.00	115	45-169				
Bromomethane	11.4		"	10.0	0.00	114	0.5-242				
Carbon tetrachloride	15.5		"	10.0	0.00	155	70-140	High Bias			
Chlorobenzene	11.6		"	10.0	0.00	116	37-160				
Chloroethane	14.6		"	10.0	0.00	146	14-230				
Chloroform	14.3		"	10.0	0.00	143	51-138	High Bias			
Chloromethane	14.8		"	10.0	0.00	148	0.5-273				
cis-1,2-Dichloroethylene	49.8		"	10.0	36.2	137	70-130	High Bias			
cis-1,3-Dichloropropylene	10.4		"	10.0	0.00	104	0.5-227				
Dibromochloromethane	11.8		"	10.0	0.00	118	53-149				
Ethyl Benzene	11.7		"	10.0	0.00	117	37-162				
Methylene chloride	13.6		"	10.0	0.00	136	0.5-221				
o-Xylene	11.4		"	10.0	0.00	114	70-130				
p- & m- Xylenes	23.4		"	20.0	0.00	117	70-130				
Tetrachloroethylene	11.9		"	10.0	5.12	67.5	64-148				
Toluene	11.7		"	10.0	0.00	117	70-130				
trans-1,2-Dichloroethylene	14.7		"	10.0	0.400	143	54-156				
trans-1,3-Dichloropropylene	10.8		"	10.0	0.00	108	17-183				
Trichloroethylene	21.4		"	10.0	10.5	109	71-157				
Trichlorofluoromethane	16.3		"	10.0	0.00	163	17-181				
Vinyl Chloride	14.4		"	10.0	0.00	144	0.5-251				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*78-126*				
Surrogate: SURR: Toluene-d8	*8.90*		*"*	*10.0*		*89.0*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.25*		*"*	*10.0*		*92.5*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31169 - EPA 5030B											
Matrix Spike Dup (BL31169-MSD1)	*Source sample: 23L0893-01 (Matrix Spike Dup)								Prepared & Analyzed: 12/18/2023		
1,1,1-Trichloroethane	14.9		ug/L	10.0	0.00	149	52-162		0.743	30	
1,1,2,2-Tetrachloroethane	10.5		"	10.0	0.00	105	46-157		3.10	30	
1,1,2-Trichloroethane	10.6		"	10.0	0.00	106	52-150		3.60	30	
1,1-Dichloroethane	13.8		"	10.0	0.00	138	59-155		0.652	30	
1,1-Dichloroethylene	15.7		"	10.0	0.490	152	0.5-234		0.823	30	
1,2-Dichlorobenzene	10.3		"	10.0	0.00	103	18-190		0.193	30	
1,2-Dichloroethane	14.2		"	10.0	0.00	142	49-155		4.13	30	
1,2-Dichloropropane	11.0		"	10.0	0.00	110	0.5-210		1.18	30	
1,3-Dichlorobenzene	10.5		"	10.0	0.00	105	59-156		1.05	30	
1,4-Dichlorobenzene	10.3		"	10.0	0.00	103	18-190		0.389	30	
2-Chloroethylvinyl ether	0.00		"	10.0	0.00		20-305	Low Bias		30	
Benzene	14.3		"	10.0	0.00	143	37-151		0.559	30	
Bromodichloromethane	11.0		"	10.0	0.00	110	35-155		3.03	30	
Bromoform	10.8		"	10.0	0.00	108	45-169		6.00	30	
Bromomethane	14.4		"	10.0	0.00	144	0.5-242		23.7	30	
Carbon tetrachloride	15.4		"	10.0	0.00	154	70-140	High Bias	0.582	30	
Chlorobenzene	11.6		"	10.0	0.00	116	37-160		0.172	30	
Chloroethane	14.4		"	10.0	0.00	144	14-230		1.38	30	
Chloroform	14.0		"	10.0	0.00	140	51-138	High Bias	1.98	30	
Chloromethane	14.6		"	10.0	0.00	146	0.5-273		1.09	30	
cis-1,2-Dichloroethylene	49.7		"	10.0	36.2	136	70-130	High Bias	0.201	30	
cis-1,3-Dichloropropylene	10.3		"	10.0	0.00	103	0.5-227		1.45	30	
Dibromochloromethane	11.3		"	10.0	0.00	113	53-149		4.15	30	
Ethyl Benzene	11.8		"	10.0	0.00	118	37-162		0.511	30	
Methylene chloride	13.1		"	10.0	0.00	131	0.5-221		3.67	30	
o-Xylene	11.3		"	10.0	0.00	113	70-130		1.14	30	
p- & m- Xylenes	23.6		"	20.0	0.00	118	70-130		0.937	30	
Tetrachloroethylene	12.2		"	10.0	5.12	70.3	64-148		2.33	30	
Toluene	11.7		"	10.0	0.00	117	70-130		0.171	30	
trans-1,2-Dichloroethylene	14.6		"	10.0	0.400	142	54-156		0.955	30	
trans-1,3-Dichloropropylene	10.4		"	10.0	0.00	104	17-183		4.34	30	
Trichloroethylene	21.8		"	10.0	10.5	113	71-157		1.81	30	
Trichlorofluoromethane	16.1		"	10.0	0.00	161	17-181		1.11	30	
Vinyl Chloride	14.1		"	10.0	0.00	141	0.5-251		2.17	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*78-126*				
Surrogate: SURR: Toluene-d8	*8.98*		*"*	*10.0*		*89.8*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.56*		*"*	*10.0*		*95.6*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31281 - EPA 5030B											
Blank (BL31281-BLK1)											
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.30*		*"*	*10.0*		*93.0*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.10*		*"*	*10.0*		*91.0*	*71-130*				

Prepared & Analyzed: 12/19/2023

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31281 - EPA 5030B											
LCS (BL31281-BS1)							Prepared & Analyzed: 12/19/2023				
1,1,1-Trichloroethane	10.5		ug/L	10.0		105	75-125				
1,1,2,2-Tetrachloroethane	9.59		"	10.0		95.9	60-140				
1,1,2-Trichloroethane	9.30		"	10.0		93.0	71-129				
1,1-Dichloroethane	9.93		"	10.0		99.3	72-128				
1,1-Dichloroethylene	11.2		"	10.0		112	50-150				
1,2-Dichlorobenzene	9.02		"	10.0		90.2	63-137				
1,2-Dichloroethane	11.4		"	10.0		114	68-132				
1,2-Dichloropropane	9.10		"	10.0		91.0	34-166				
1,3-Dichlorobenzene	8.90		"	10.0		89.0	73-127				
1,4-Dichlorobenzene	8.89		"	10.0		88.9	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	10.5		"	10.0		105	64-136				
Bromodichloromethane	9.49		"	10.0		94.9	65-135				
Bromoform	9.89		"	10.0		98.9	71-129				
Bromomethane	10.0		"	10.0		100	14-186				
Carbon tetrachloride	10.8		"	10.0		108	73-127				
Chlorobenzene	9.44		"	10.0		94.4	66-134				
Chloroethane	10.5		"	10.0		105	38-162				
Chloroform	10.3		"	10.0		103	67-133				
Chloromethane	11.2		"	10.0		112	0.5-204				
cis-1,2-Dichloroethylene	10.5		"	10.0		105	70-130				
cis-1,3-Dichloropropylene	8.85		"	10.0		88.5	24-176				
Dibromochloromethane	9.86		"	10.0		98.6	67-133				
Ethyl Benzene	9.43		"	10.0		94.3	59-141				
Methylene chloride	10.2		"	10.0		102	60-140				
o-Xylene	9.26		"	10.0		92.6	70-130				
p- & m- Xylenes	18.9		"	20.0		94.6	70-130				
Tetrachloroethylene	5.45		"	10.0		54.5	73-127	Low Bias			
Toluene	9.44		"	10.0		94.4	74-126				
trans-1,2-Dichloroethylene	10.3		"	10.0		103	69-131				
trans-1,3-Dichloropropylene	9.11		"	10.0		91.1	50-150				
Trichloroethylene	8.86		"	10.0		88.6	66-134				
Trichlorofluoromethane	11.7		"	10.0		117	48-152				
Vinyl Chloride	10.8		"	10.0		108	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.20*		*"*	*10.0*		*92.0*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.21*		*"*	*10.0*		*92.1*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31281 - EPA 5030B											
LCS Dup (BL31281-BSD1)								Prepared & Analyzed: 12/19/2023			
1,1,1-Trichloroethane	10.4		ug/L	10.0		104	75-125		0.957	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	60-140		6.56	30	
1,1,2-Trichloroethane	9.90		"	10.0		99.0	71-129		6.25	30	
1,1-Dichloroethane	9.82		"	10.0		98.2	72-128		1.11	30	
1,1-Dichloroethylene	10.8		"	10.0		108	50-150		4.00	30	
1,2-Dichlorobenzene	9.34		"	10.0		93.4	63-137		3.49	30	
1,2-Dichloroethane	11.8		"	10.0		118	68-132		2.85	30	
1,2-Dichloropropane	9.07		"	10.0		90.7	34-166		0.330	30	
1,3-Dichlorobenzene	9.06		"	10.0		90.6	73-127		1.78	30	
1,4-Dichlorobenzene	9.00		"	10.0		90.0	63-137		1.23	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	10.4		"	10.0		104	64-136		0.763	30	
Bromodichloromethane	9.44		"	10.0		94.4	65-135		0.528	30	
Bromoform	10.7		"	10.0		107	71-129		7.68	30	
Bromomethane	10.1		"	10.0		101	14-186		0.298	30	
Carbon tetrachloride	10.7		"	10.0		107	73-127		1.11	30	
Chlorobenzene	9.43		"	10.0		94.3	66-134		0.106	30	
Chloroethane	10.4		"	10.0		104	38-162		1.53	30	
Chloroform	10.2		"	10.0		102	67-133		0.488	30	
Chloromethane	10.9		"	10.0		109	0.5-204		2.63	30	
cis-1,2-Dichloroethylene	10.4		"	10.0		104	70-130		1.34	30	
cis-1,3-Dichloropropylene	9.05		"	10.0		90.5	24-176		2.23	30	
Dibromochloromethane	10.4		"	10.0		104	67-133		5.52	30	
Ethyl Benzene	9.23		"	10.0		92.3	59-141		2.14	30	
Methylene chloride	10.2		"	10.0		102	60-140		0.295	30	
o-Xylene	9.19		"	10.0		91.9	70-130		0.759	30	
p- & m- Xylenes	18.7		"	20.0		93.4	70-130		1.28	30	
Tetrachloroethylene	5.34		"	10.0		53.4	73-127	Low Bias	2.04	30	
Toluene	9.18		"	10.0		91.8	74-126		2.79	30	
trans-1,2-Dichloroethylene	9.93		"	10.0		99.3	69-131		4.05	30	
trans-1,3-Dichloropropylene	9.60		"	10.0		96.0	50-150		5.24	30	
Trichloroethylene	8.66		"	10.0		86.6	66-134		2.28	30	
Trichlorofluoromethane	11.2		"	10.0		112	48-152		4.28	30	
Vinyl Chloride	10.4		"	10.0		104	4-196		4.05	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*78-126*				
Surrogate: SURR: Toluene-d8	*9.25*		*"*	*10.0*		*92.5*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.24*		*"*	*10.0*		*92.4*	*71-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31468 - EPA 200.7											
Blank (BL31468-BLK1)									Prepared & Analyzed: 12/21/2023		
Hardness, Total	ND	1.11	mg/L								
Duplicate (BL31468-DUP1)	*Source sample: 23L1480-03 (Duplicate)								Prepared & Analyzed: 12/21/2023		
Hardness, Total	ND	1.11	mg/L		ND					20	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30999 - EPA 300											
Blank (BL30999-BLK1)								Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL30999-BS1)								Prepared & Analyzed: 12/13/2023			
Chloride	9.46	0.500	mg/L	10.0		94.6	90-110				
Nitrate as N	9.84	0.0500	"	10.0		98.4	90-110				
Sulfate	10.1	1.00	"	10.0		101	85-115				
Duplicate (BL30999-DUP1)	*Source sample: 23L0947-01 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L		ND					15	
Nitrate as N	0.0681	0.0500	"		0.0698				2.47	15	
Sulfate	37.8	1.00	"		38.1				0.982	15	
Duplicate (BL30999-DUP2)	*Source sample: 23L0947-02 (Duplicate)							Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L		33.5					15	
Nitrate as N	0.696	0.0500	"		0.530				27.0	15	Non-dir.
Sulfate	33.4	1.00	"		26.3				23.7	15	Non-dir.
Matrix Spike (BL30999-MS1)	*Source sample: 23L0947-01 (Matrix Spike)							Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L	10.0	ND		85-115	Low Bias			
Nitrate as N	9.13	0.0500	"	10.0	0.0698	90.6	90-110				
Sulfate	41.1	1.00	"	10.0	38.1	29.6	85-115	Low Bias			
Matrix Spike (BL30999-MS2)	*Source sample: 23L0947-02 (Matrix Spike)							Prepared & Analyzed: 12/13/2023			
Chloride	ND	0.500	mg/L	10.0	33.5	NR	85-115	Low Bias			
Nitrate as N	10.4	0.0500	"	10.0	0.530	98.9	90-110				
Sulfate	36.5	1.00	"	10.0	26.3	102	85-115				

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30999 - EPA 300											
Matrix Spike Dup (BL30999-MSD1)	*Source sample: 23L0947-01 (Matrix Spike Dup)								Prepared & Analyzed: 12/13/2023		
Chloride	ND	0.500	mg/L	10.0	ND		85-115	Low Bias		20	
Nitrate as N	8.87	0.0500	"	10.0	0.0698	88.0	90-110	Low Bias	2.91	200	
Sulfate	41.2	1.00	"	10.0	38.1	31.0	85-115	Low Bias	0.332	20	
Matrix Spike Dup (BL30999-MSD2)	*Source sample: 23L0947-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/13/2023		
Chloride	ND	0.500	mg/L	10.0	33.5	NR	85-115	Low Bias		20	
Nitrate as N	9.77	0.0500	"	10.0	0.530	92.4	90-110		6.43	200	
Sulfate	36.4	1.00	"	10.0	26.3	101	85-115		0.364	20	
Batch BL31329 - EPA 300											
Blank (BL31329-BLK1)									Prepared & Analyzed: 12/18/2023		
Chloride	ND	0.500	mg/L								
Sulfate	ND	1.00	"								
LCS (BL31329-BS1)									Prepared & Analyzed: 12/18/2023		
Chloride	9.21	0.500	mg/L	10.0		92.1	90-110				
Sulfate	9.75	1.00	"	10.0		97.5	85-115				
Duplicate (BL31329-DUP1)	*Source sample: 23L1237-04 (Duplicate)								Prepared & Analyzed: 12/18/2023		
Chloride	54.8	0.500	mg/L		54.9				0.0514	15	
Sulfate	4.11	1.00	"		4.19				1.97	15	
Duplicate (BL31329-DUP2)	*Source sample: 23L1245-01 (Duplicate)								Prepared & Analyzed: 12/18/2023		
Chloride	30.2	0.500	mg/L		28.0				7.51	15	
Sulfate	44.9	1.00	"		45.2				0.589	15	

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31329 - EPA 300											
Matrix Spike (BL31329-MS1)	*Source sample: 23L1237-04 (Matrix Spike)							Prepared & Analyzed: 12/18/2023			
Chloride	55.1	0.500	mg/L	10.0	54.9	2.21	85-115	Low Bias			
Sulfate	13.4	1.00	"	10.0	4.19	92.4	85-115				
Matrix Spike (BL31329-MS2)	*Source sample: 23L1245-01 (Matrix Spike)							Prepared & Analyzed: 12/18/2023			
Chloride	30.9	0.500	mg/L	10.0	28.0	28.8	85-115	Low Bias			
Sulfate	45.2	1.00	"	10.0	45.2	0.631	85-115	Low Bias			
Matrix Spike Dup (BL31329-MSD1)	*Source sample: 23L1237-04 (Matrix Spike Dup)							Prepared & Analyzed: 12/18/2023			
Chloride	55.2	0.500	mg/L	10.0	54.9	2.87	85-115	Low Bias	0.120	20	
Sulfate	12.4	1.00	"	10.0	4.19	82.3	85-115	Low Bias	7.80	20	
Matrix Spike Dup (BL31329-MSD2)	*Source sample: 23L1245-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/18/2023			
Chloride	29.0	0.500	mg/L	10.0	28.0	9.52	85-115	Low Bias	6.45	20	
Sulfate	45.3	1.00	"	10.0	45.2	0.753	85-115	Low Bias	0.0270	20	
Batch BL31330 - EPA 300											
Blank (BL31330-BLK1)								Prepared & Analyzed: 12/19/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL31330-BS1)								Prepared & Analyzed: 12/19/2023			
Chloride	9.33	0.500	mg/L	10.0		93.3	90-110				
Nitrate as N	9.63	0.0500	"	10.0		96.3	90-110				
Sulfate	9.54	1.00	"	10.0		95.4	85-115				

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31330 - EPA 300											
Duplicate (BL31330-DUP1)	*Source sample: 23L1245-03 (Duplicate)							Prepared & Analyzed: 12/19/2023			
Chloride	54.6	0.500	mg/L		54.5				0.00202	15	
Nitrate as N	0.0458	0.0500	"		0.0464				1.30	15	
Sulfate	12.2	1.00	"		12.2				0.571	15	
Duplicate (BL31330-DUP2)	*Source sample: 23L1248-01 (Duplicate)							Prepared & Analyzed: 12/19/2023			
Chloride	30.8	0.500	mg/L		30.9				0.172	15	
Nitrate as N	6.68	0.0500	"		6.61				1.11	15	
Sulfate	7.56	1.00	"		7.42				1.85	15	
Matrix Spike (BL31330-MS1)	*Source sample: 23L1245-03 (Matrix Spike)							Prepared & Analyzed: 12/19/2023			
Chloride	55.0	0.500	mg/L	10.0	54.5	4.39	85-115	Low Bias			
Nitrate as N	8.96	0.0500	"	10.0	0.0464	89.2	90-110	Low Bias			
Sulfate	20.2	1.00	"	10.0	12.2	79.9	85-115	Low Bias			
Matrix Spike (BL31330-MS2)	*Source sample: 23L1248-01 (Matrix Spike)							Prepared & Analyzed: 12/19/2023			
Chloride	37.1	0.500	mg/L	10.0	30.9	61.7	85-115	Low Bias			
Nitrate as N	16.3	0.0500	"	10.0	6.61	97.3	90-110				
Sulfate	15.9	1.00	"	10.0	7.42	85.2	85-115				
Matrix Spike Dup (BL31330-MSD1)	*Source sample: 23L1245-03 (Matrix Spike Dup)							Prepared & Analyzed: 12/19/2023			
Chloride	55.0	0.500	mg/L	10.0	54.5	4.85	85-115	Low Bias	0.0829	20	
Nitrate as N	8.88	0.0500	"	10.0	0.0464	88.3	90-110	Low Bias	0.968	200	
Sulfate	19.9	1.00	"	10.0	12.2	76.4	85-115	Low Bias	1.77	20	
Matrix Spike Dup (BL31330-MSD2)	*Source sample: 23L1248-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/19/2023			
Chloride	36.7	0.500	mg/L	10.0	30.9	57.7	85-115	Low Bias	1.08	20	
Nitrate as N	16.2	0.0500	"	10.0	6.61	95.4	90-110		1.15	200	
Sulfate	16.0	1.00	"	10.0	7.42	85.9	85-115		0.452	20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31134 - Analysis Preparation											
Blank (BL31134-BLK1)								Prepared & Analyzed: 12/18/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L								
LCS (BL31134-BS1)								Prepared & Analyzed: 12/18/2023			
Ammonia Nitrogen as NH3	1.31	0.0500	mg/L				85-125				
Duplicate (BL31134-DUP1)	*Source sample: 23L0835-01 (Duplicate)							Prepared & Analyzed: 12/18/2023			
Ammonia Nitrogen as NH3	1.23	0.0500	mg/L		1.16				5.86	15	
Matrix Spike (BL31134-MS1)	*Source sample: 23L0835-01 (Matrix Spike)							Prepared & Analyzed: 12/18/2023			
Ammonia Nitrogen as NH3	14.0	0.0500	mg/L		1.16		80-120				
Matrix Spike Dup (BL31134-MSD1)	*Source sample: 23L0835-01 (Matrix Spike Dup)							Prepared & Analyzed: 12/18/2023			
Ammonia Nitrogen as NH3	14.3	0.0500	mg/L		1.16		80-120		2.62	200	
Batch BL31274 - Analysis Preparation											
Blank (BL31274-BLK1)								Prepared & Analyzed: 12/19/2023			
Bicarbonate	ND	2.00	mg/L								
Duplicate (BL31274-DUP1)	*Source sample: 23L0901-07 (SW6)							Prepared & Analyzed: 12/19/2023			
Bicarbonate	28.0	2.00	mg/L		32.0				13.3	15	
Batch BL31275 - Analysis Preparation											
Duplicate (BL31275-DUP1)	*Source sample: 23L0901-07 (SW6)							Prepared & Analyzed: 12/19/2023			
Alkalinity, total	28	2.0	mg/L		32				13.3	15	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31275 - Analysis Preparation											
Reference (BL31275-SRM1)									Prepared & Analyzed: 12/19/2023		
Alkalinity, total	76		mg/L	77.2		98.4	90-110				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31082 - % Solids Prep											
Blank (BL31082-BLK1)								Prepared & Analyzed: 12/15/2023			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BL31082-DUP1)	*Source sample: 23L0850-02 (Duplicate)							Prepared & Analyzed: 12/15/2023			
Total Dissolved Solids	2140	10.0	mg/L		2140				0.140	15	
Duplicate (BL31082-DUP2)	*Source sample: 23L0941-01 (Duplicate)							Prepared & Analyzed: 12/15/2023			
Total Dissolved Solids	295	10.0	mg/L		290				1.71	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23L0901-01	SW7	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-02	SW4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-03	SW1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-04	SW2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-05	SW3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-06	SW5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-07	SW6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L0901-08	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
HT-01R	This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.
CONT-02	Alkalinity was performed on a sample from a container with head space.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L0901

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: D&B Engineers & Architects	Company:	Company:
Address: 330 Crossways Park Drive, Woodbury, NY 11797	Address:	Address:
Phone.: 516-364-9890	Phone.:	Phone.:
Contact: Keith Robins	Contact:	Contact:
E-mail: krobins@db-eng.com	E-mail:	E-mail:

YOUR Project Number: 5629

YOUR Project Name: East Northport Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X
- PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Christopher Andrade

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- NY ASP-B Package
- Other: Category "B"

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
SW 7	Surface Water	12-12-2023 11:30	VOCs (624), Alkalinity, Bicarbonate, ammonia, nitrate, chloride, sulfate, TDS, Hardness	3 HCl Vom Vials	
SW 4		11:50		1 - 250 mL H2SO4	
SW 1		12:10		2 - 1L plastic unpreserved	
SW 2		12:45			
SW 3		1:00			
SW 5		1:15			
SW 6		2:00			
Trip blank, 12-12-2023	Water		VOCs (624)		

Comments:

Preservation: (check all that apply)

HCl X MeOH ___ HNO3 ___ H2SO4 X NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

- Field Filtered
- Lab to Filter

Samples iced/chilled at time of lab pickup? circle Yes or No

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Christopher Andrade D&B	5:00 12-12-2023	KBarkwork	12/13/23 930 AM	KBarkwork	12/13/23 1545
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	12/13/23 1545 5.6 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/27/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L1187

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/27/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L1187

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 15, 2023 and listed below. The project was identified as your project: **5629 East Northport Groundwater**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L1187-01	EN10-M	Ground Water	12/14/2023	12/15/2023
23L1187-02	Trip-Blank-12-14-23	Ground Water	12/14/2023	12/15/2023

General Notes for York Project (SDG) No.: 23L1187

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/27/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **EN10-M** **York Sample ID:** **23L1187-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

VOA, 624 Low List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
67-66-3	**Chloroform**	**0.70**		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA

Sample Information

Client Sample ID: EN10-M

York Sample ID: 23L1187-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/22/2023 00:56	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30	12/22/2023 00:56	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.2 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.7 %*	*71-130*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D Certifications:	12/22/2023 08:40 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/26/2023 16:10	CEG

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: EN10-M

York Sample ID: 23L1187-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**13.2**		mg/L	0.0556	1	EPA 6010D	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Hardness, Groundwater

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**55.2**		mg/L	1.11	1	SM 2340B-2011	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005		

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**5.39**		mg/L	0.0556	1	EPA 6010D	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1.76**	B	mg/L	0.0556	1	EPA 6010D	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**16.7**		mg/L	0.556	1	EPA 6010D	12/22/2023 08:40	12/26/2023 16:10	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: EN10-M

York Sample ID: 23L1187-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/22/2023 08:55	12/22/2023 16:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Cadmium by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	12/22/2023 08:55	12/22/2023 16:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Lead by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.77**		ug/L	1.11	1	EPA 6020B	12/22/2023 08:55	12/22/2023 16:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	12/22/2023 17:43	12/22/2023 17:43	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**27.4**		mg/L	0.0690	0.500	1	EPA 300.0	12/16/2023 01:54	12/16/2023 01:54	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**5.73**		mg/L	0.0500	1	EPA 300.0	12/16/2023 01:54	12/16/2023 01:54	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**24.4**		mg/L	1.00	1	EPA 300.0	12/16/2023 01:54	12/16/2023 01:54	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: EN10-M **York Sample ID:** 23L1187-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

Alkalinity, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**20**		mg/L	2.0	1	SM 2320B	12/26/2023 07:29	12/26/2023 07:29	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Ammonia as NH3

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as NH3	ND		mg/L	0.0500	1	SM 4500-NH3 D	12/21/2023 07:45	12/21/2023 12:35	TCD
							Certifications:			

Bicarbonate

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Bicarbonate**	**20.0**		mg/L	2.00	1	SM 2310B	12/26/2023 07:32	12/27/2023 13:47	VR
							Certifications:			

Total Dissolved Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**147**		mg/L	10.0	1	SM 2540C-2015	12/18/2023 23:17	12/18/2023 23:17	AA
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: Trip-Blank-12-14-23 **York Sample ID:** 23L1187-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

VOA, 624 Low List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/21/2023 12:30	12/21/2023 21:52	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1	12/21/2023 12:30	12/21/2023 21:52	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1	12/21/2023 12:30	12/21/2023 21:52	SMA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: Trip-Blank-12-14-23 **York Sample ID:** 23L1187-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
110-75-8	2-Chloroethylvinyl ether	ND	CCVE, QL-02	ug/L	20	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-09-2	Methylene chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
95-47-6	o-Xylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA

Sample Information

Client Sample ID: Trip-Blank-12-14-23 **York Sample ID:** 23L1187-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1187	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

VOA, 624 Low List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
1330-20-7	Xylenes, Total	ND		ug/L	1.5	1	EPA 624.1 Certifications:	12/21/2023 12:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	12/21/2023 21:52	SMA
526-73-8	* 1,2,3-Trimethylbenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications:	12/21/2023 12:30	12/21/2023 21:52	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*78-126*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*84-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.3 %*	*71-130*

Analytical Batch Summary

Batch ID: BL31204 **Preparation Method:** EPA 300 **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/16/23
BL31204-BLK1	Blank	12/15/23
BL31204-BS1	LCS	12/15/23
BL31204-DUP1	Duplicate	12/15/23
BL31204-DUP2	Duplicate	12/16/23
BL31204-MS1	Matrix Spike	12/15/23
BL31204-MS2	Matrix Spike	12/16/23
BL31204-MSD1	Matrix Spike Dup	12/16/23
BL31204-MSD2	Matrix Spike Dup	12/16/23

Batch ID: BL31229 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/18/23
BL31229-BLK1	Blank	12/18/23
BL31229-DUP1	Duplicate	12/18/23
BL31229-DUP2	Duplicate	12/18/23

Batch ID: BL31452 **Preparation Method:** Analysis Preparation **Prepared By:** TCD

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/21/23
BL31452-BLK1	Blank	12/21/23
BL31452-BS1	LCS	12/21/23
BL31452-DUP1	Duplicate	12/21/23
BL31452-MS1	Matrix Spike	12/21/23
BL31452-MSD1	Matrix Spike Dup	12/21/23

Batch ID: BL31526 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/21/23
23L1187-02	Trip-Blank-12-14-23	12/21/23
BL31526-BLK1	Blank	12/21/23
BL31526-BS1	LCS	12/21/23
BL31526-BSD1	LCS Dup	12/21/23

Batch ID: BL31597 **Preparation Method:** EPA 3015A **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/22/23
BL31597-BLK1	Blank	12/22/23
BL31597-BS1	LCS	12/22/23

BL31597-DUP1	Duplicate	12/22/23
BL31597-MS1	Matrix Spike	12/22/23
BL31597-PS1	Post Spike	12/22/23

Batch ID: BL31604 **Preparation Method:** EPA 3015A **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/22/23
BL31604-BLK1	Blank	12/22/23
BL31604-BS1	LCS	12/22/23
BL31604-DUP1	Duplicate	12/22/23
BL31604-MS1	Matrix Spike	12/22/23

Batch ID: BL31700 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/22/23
BL31700-BLK1	Blank	12/22/23
BL31700-BLK2	Blank	12/22/23
BL31700-BS1	LCS	12/22/23
BL31700-BS2	LCS	12/22/23

Batch ID: BL31712 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/26/23
BL31712-DUP1	Duplicate	12/26/23
BL31712-SRM1	Reference	12/26/23

Batch ID: BL31714 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23L1187-01	EN10-M	12/26/23
BL31714-BLK1	Blank	12/26/23
BL31714-DUP1	Duplicate	12/26/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31526 - EPA 5030B											
Blank (BL31526-BLK1)											Prepared & Analyzed: 12/21/2023
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylene chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
1,2,3-Trimethylbenzene	ND	0.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.84*		*"*	*10.0*		*98.4*	*78-126*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.95*		*"*	*10.0*		*99.5*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31526 - EPA 5030B											
LCS (BL31526-BS1)							Prepared & Analyzed: 12/21/2023				
1,1,1-Trichloroethane	10.3		ug/L	10.0		103	75-125				
1,1,2,2-Tetrachloroethane	9.63		"	10.0		96.3	60-140				
1,1,2-Trichloroethane	8.78		"	10.0		87.8	71-129				
1,1-Dichloroethane	9.29		"	10.0		92.9	72-128				
1,1-Dichloroethylene	10.3		"	10.0		103	50-150				
1,2-Dichlorobenzene	9.64		"	10.0		96.4	63-137				
1,2-Dichloroethane	9.61		"	10.0		96.1	68-132				
1,2-Dichloropropane	9.04		"	10.0		90.4	34-166				
1,3-Dichlorobenzene	9.79		"	10.0		97.9	73-127				
1,4-Dichlorobenzene	9.54		"	10.0		95.4	63-137				
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias			
Benzene	10.1		"	10.0		101	64-136				
Bromodichloromethane	9.49		"	10.0		94.9	65-135				
Bromoform	9.35		"	10.0		93.5	71-129				
Bromomethane	13.1		"	10.0		131	14-186				
Carbon tetrachloride	10.7		"	10.0		107	73-127				
Chlorobenzene	9.84		"	10.0		98.4	66-134				
Chloroethane	10.2		"	10.0		102	38-162				
Chloroform	9.66		"	10.0		96.6	67-133				
Chloromethane	11.2		"	10.0		112	0.5-204				
cis-1,2-Dichloroethylene	9.49		"	10.0		94.9	70-130				
cis-1,3-Dichloropropylene	8.64		"	10.0		86.4	24-176				
Dibromochloromethane	9.44		"	10.0		94.4	67-133				
Ethyl Benzene	9.80		"	10.0		98.0	59-141				
Methylene chloride	9.03		"	10.0		90.3	60-140				
o-Xylene	9.59		"	10.0		95.9	70-130				
p- & m- Xylenes	19.8		"	20.0		98.8	70-130				
Tetrachloroethylene	5.89		"	10.0		58.9	73-127	Low Bias			
Toluene	9.82		"	10.0		98.2	74-126				
trans-1,2-Dichloroethylene	9.67		"	10.0		96.7	69-131				
trans-1,3-Dichloropropylene	8.59		"	10.0		85.9	50-150				
Trichloroethylene	9.41		"	10.0		94.1	66-134				
Trichlorofluoromethane	11.2		"	10.0		112	48-152				
Vinyl Chloride	10.2		"	10.0		102	4-196				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*78-126*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.80*		*"*	*10.0*		*98.0*	*71-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31526 - EPA 5030B											
LCS Dup (BL31526-BSD1)								Prepared & Analyzed: 12/21/2023			
1,1,1-Trichloroethane	10.1		ug/L	10.0		101	75-125		2.15	30	
1,1,2,2-Tetrachloroethane	9.63		"	10.0		96.3	60-140		0.00	30	
1,1,2-Trichloroethane	8.60		"	10.0		86.0	71-129		2.07	30	
1,1-Dichloroethane	9.20		"	10.0		92.0	72-128		0.974	30	
1,1-Dichloroethylene	10.1		"	10.0		101	50-150		2.25	30	
1,2-Dichlorobenzene	9.56		"	10.0		95.6	63-137		0.833	30	
1,2-Dichloroethane	9.46		"	10.0		94.6	68-132		1.57	30	
1,2-Dichloropropane	9.01		"	10.0		90.1	34-166		0.332	30	
1,3-Dichlorobenzene	9.75		"	10.0		97.5	73-127		0.409	30	
1,4-Dichlorobenzene	9.55		"	10.0		95.5	63-137		0.105	30	
2-Chloroethylvinyl ether	0.00		"	10.0			20-224	Low Bias		30	
Benzene	9.83		"	10.0		98.3	64-136		2.31	30	
Bromodichloromethane	9.32		"	10.0		93.2	65-135		1.81	30	
Bromoform	8.85		"	10.0		88.5	71-129		5.49	30	
Bromomethane	13.5		"	10.0		135	14-186		2.78	30	
Carbon tetrachloride	10.2		"	10.0		102	73-127		4.40	30	
Chlorobenzene	9.74		"	10.0		97.4	66-134		1.02	30	
Chloroethane	9.94		"	10.0		99.4	38-162		2.19	30	
Chloroform	9.59		"	10.0		95.9	67-133		0.727	30	
Chloromethane	10.8		"	10.0		108	0.5-204		3.19	30	
cis-1,2-Dichloroethylene	9.34		"	10.0		93.4	70-130		1.59	30	
cis-1,3-Dichloropropylene	8.48		"	10.0		84.8	24-176		1.87	30	
Dibromochloromethane	9.22		"	10.0		92.2	67-133		2.36	30	
Ethyl Benzene	9.86		"	10.0		98.6	59-141		0.610	30	
Methylene chloride	8.74		"	10.0		87.4	60-140		3.26	30	
o-Xylene	9.40		"	10.0		94.0	70-130		2.00	30	
p- & m- Xylenes	19.7		"	20.0		98.5	70-130		0.355	30	
Tetrachloroethylene	5.92		"	10.0		59.2	73-127	Low Bias	0.508	30	
Toluene	9.89		"	10.0		98.9	74-126		0.710	30	
trans-1,2-Dichloroethylene	9.61		"	10.0		96.1	69-131		0.622	30	
trans-1,3-Dichloropropylene	8.42		"	10.0		84.2	50-150		2.00	30	
Trichloroethylene	9.47		"	10.0		94.7	66-134		0.636	30	
Trichlorofluoromethane	11.1		"	10.0		111	48-152		0.895	30	
Vinyl Chloride	9.97		"	10.0		99.7	4-196		2.18	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.81*		*"*	*10.0*		*98.1*	*78-126*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*84-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.99*		*"*	*10.0*		*99.9*	*71-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31597 - EPA 3015A											
Blank (BL31597-BLK1)								Prepared & Analyzed: 12/22/2023			
Aluminum	ND	0.0556	mg/L								
Hardness, Total	ND	1.11	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Iron	ND	0.278	"								
Magnesium	ND	0.0556	"								
Potassium	0.0605	0.0556	"								
Sodium	ND	0.556	"								
LCS (BL31597-BS1)								Prepared & Analyzed: 12/22/2023			
Aluminum	2.06		ug/mL	2.00		103	80-120				
Calcium	0.291		"	1.00		29.1	80-120	Low Bias			
Chromium	0.211		"	0.200		106	80-120				
Iron	1.09		"	1.00		109	80-120				
Magnesium	1.06		"	1.00		106	80-120				
Potassium	1.07		"	1.00		107	80-120				
Sodium	4.00		"	1.00		400	80-120	High Bias			
Duplicate (BL31597-DUP1)	*Source sample: 23L1187-01 (EN10-M)							Prepared: 12/22/2023 Analyzed: 12/26/2023			
Aluminum	ND	0.0556	mg/L		ND					20	
Hardness, Total	ND	1.11	"		55.2					20	
Calcium	13.3	0.0556	"		13.2				0.615	20	
Chromium	ND	0.00556	"		ND					20	
Iron	ND	0.278	"		ND					20	
Magnesium	4.86	0.0556	"		5.39				10.3	20	
Potassium	1.61	0.0556	"		1.76				8.88	20	
Sodium	14.6	0.556	"		16.7				12.9	20	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31597 - EPA 3015A											
Matrix Spike (BL31597-MS1)	*Source sample: 23L1187-01 (EN10-M)								Prepared: 12/22/2023 Analyzed: 12/26/2023		
Aluminum	2.25	0.0556	mg/L	2.22	ND	101	75-125				
Chromium	0.228	0.00556	"	0.222	ND	103	75-125				
Iron	1.17	0.278	"	1.11	ND	106	75-125				
Post Spike (BL31597-PS1)	*Source sample: 23L1187-01 (EN10-M)								Prepared: 12/22/2023 Analyzed: 12/26/2023		
Aluminum	2.03		ug/mL	2.00	0.0351	99.7	75-125				
Calcium	12.9		"	1.00	11.9	101	75-125				
Chromium	0.208		"	0.200	0.00349	102	75-125				
Iron	1.03		"	1.00	0.0470	98.0	75-125				
Magnesium	5.74		"	1.00	4.85	89.1	75-125				
Potassium	2.50		"	1.00	1.58	91.7	75-125				
Sodium	16.0		"	1.00	15.0	106	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31604 - EPA 3015A											
Blank (BL31604-BLK1)									Prepared & Analyzed: 12/22/2023		
Arsenic	ND	1.11	ug/L								
Cadmium	ND	0.556	"								
Lead	ND	1.11	"								
LCS (BL31604-BS1)									Prepared & Analyzed: 12/22/2023		
Arsenic	50.0		ug/L	50.0		100	80-120				
Cadmium	51.9		"	50.0		104	80-120				
Lead	57.8		"	50.0		116	80-120				
Duplicate (BL31604-DUP1)	*Source sample: 23L1344-01 (Duplicate)								Prepared & Analyzed: 12/22/2023		
Arsenic	ND	1.11	ug/L		ND					20	
Cadmium	ND	0.556	"		ND					20	
Lead	ND	1.11	"		ND					20	
Matrix Spike (BL31604-MS1)	*Source sample: 23L1344-01 (Matrix Spike)								Prepared & Analyzed: 12/22/2023		
Arsenic	49.1		ug/L	50.0	0.204	97.8	75-125				
Cadmium	47.2		"	50.0	0.010	94.4	75-125				
Lead	52.8		"	50.0	0.148	105	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31700 - EPA 245.1 Mercury											
Blank (BL31700-BLK1)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.0002000	mg/L								
Blank (BL31700-BLK2)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.0002000	mg/L								
LCS (BL31700-BS1)								Prepared & Analyzed: 12/22/2023			
Mercury	0.001942	0.0002000	mg/L	0.00200		97.1	75-125				
LCS (BL31700-BS2)								Prepared & Analyzed: 12/22/2023			
Mercury	0.002192	0.0002000	mg/L	0.00200		110	75-125				

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31204 - EPA 300											
Blank (BL31204-BLK1)								Prepared & Analyzed: 12/15/2023			
Chloride	ND	0.500	mg/L								
Nitrate as N	ND	0.0500	"								
Sulfate	ND	1.00	"								
LCS (BL31204-BS1)								Prepared & Analyzed: 12/15/2023			
Chloride	9.84	0.500	mg/L	10.0		98.4	90-110				
Nitrate as N	9.85	0.0500	"	10.0		98.5	90-110				
Sulfate	9.59	1.00	"	10.0		95.9	85-115				
Duplicate (BL31204-DUP1)	*Source sample: 23L1171-02 (Duplicate)							Prepared & Analyzed: 12/15/2023			
Chloride	51.2	0.500	mg/L		50.7				1.07	15	
Nitrate as N	8.99	0.0500	"		8.84				1.72	15	
Sulfate	24.6	1.00	"		24.4				0.954	15	
Duplicate (BL31204-DUP2)	*Source sample: 23L1177-02 (Duplicate)							Prepared & Analyzed: 12/16/2023			
Chloride	34.7	0.500	mg/L		35.0				0.851	15	
Nitrate as N	7.82	0.0500	"		7.81				0.165	15	
Sulfate	35.7	1.00	"		36.0				0.864	15	
Matrix Spike (BL31204-MS1)	*Source sample: 23L1171-02 (Matrix Spike)							Prepared & Analyzed: 12/15/2023			
Chloride	55.6	0.500	mg/L	10.0	50.7	49.6	85-115	Low Bias			
Nitrate as N	17.7	0.0500	"	10.0	8.84	88.8	90-110	Low Bias			
Sulfate	32.5	1.00	"	10.0	24.4	81.7	85-115	Low Bias			
Matrix Spike (BL31204-MS2)	*Source sample: 23L1177-02 (Matrix Spike)							Prepared & Analyzed: 12/16/2023			
Chloride	41.2	0.500	mg/L	10.0	35.0	61.3	85-115	Low Bias			
Nitrate as N	16.9	0.0500	"	10.0	7.81	91.1	90-110				
Sulfate	42.7	1.00	"	10.0	36.0	67.4	85-115	Low Bias			

Anions by Ion Chromatography - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31204 - EPA 300											
Matrix Spike Dup (BL31204-MSD1)	*Source sample: 23L1171-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/16/2023		
Chloride	55.6	0.500	mg/L	10.0	50.7	49.4	85-115	Low Bias	0.0315	20	
Nitrate as N	17.6	0.0500	"	10.0	8.84	87.3	90-110	Low Bias	0.862	200	
Sulfate	32.1	1.00	"	10.0	24.4	77.8	85-115	Low Bias	1.19	20	
Matrix Spike Dup (BL31204-MSD2)	*Source sample: 23L1177-02 (Matrix Spike Dup)								Prepared & Analyzed: 12/16/2023		
Chloride	41.3	0.500	mg/L	10.0	35.0	62.6	85-115	Low Bias	0.317	20	
Nitrate as N	16.9	0.0500	"	10.0	7.81	91.0	90-110		0.0833	200	
Sulfate	42.7	1.00	"	10.0	36.0	67.6	85-115	Low Bias	0.0503	20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31452 - Analysis Preparation											
Blank (BL31452-BLK1)								Prepared & Analyzed: 12/21/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L								
LCS (BL31452-BS1)								Prepared & Analyzed: 12/21/2023			
Ammonia Nitrogen as NH3	1.28	0.0500	mg/L				85-125				
Duplicate (BL31452-DUP1)	*Source sample: 23L1187-01 (EN10-M)							Prepared & Analyzed: 12/21/2023			
Ammonia Nitrogen as NH3	ND	0.0500	mg/L		ND					15	
Matrix Spike (BL31452-MS1)	*Source sample: 23L1187-01 (EN10-M)							Prepared & Analyzed: 12/21/2023			
Ammonia Nitrogen as NH3	11.4	0.0500	mg/L		ND		80-120				
Matrix Spike Dup (BL31452-MSD1)	*Source sample: 23L1187-01 (EN10-M)							Prepared & Analyzed: 12/21/2023			
Ammonia Nitrogen as NH3	11.9	0.0500	mg/L		ND		80-120		4.20	200	
Batch BL31712 - Analysis Preparation											
Duplicate (BL31712-DUP1)	*Source sample: 23L1110-05 (Duplicate)							Prepared & Analyzed: 12/26/2023			
Alkalinity, total	420	2.0	mg/L		410				1.92	15	
Reference (BL31712-SRM1)								Prepared & Analyzed: 12/26/2023			
Alkalinity, total	76		mg/L	77.2		98.4	90-110				
Batch BL31714 - Analysis Preparation											
Blank (BL31714-BLK1)								Prepared: 12/26/2023 Analyzed: 12/27/2023			
Bicarbonate	ND	2.00	mg/L								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31714 - Analysis Preparation											
Duplicate (BL31714-DUP1)	*Source sample: 23L1187-01 (EN10-M)								Prepared: 12/26/2023 Analyzed: 12/27/2023		
Bicarbonate	20.0	2.00	mg/L		20.0				0.00	15	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31229 - % Solids Prep											
Blank (BL31229-BLK1)								Prepared & Analyzed: 12/18/2023			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BL31229-DUP1)	*Source sample: 23L1162-02 (Duplicate)							Prepared & Analyzed: 12/18/2023			
Total Dissolved Solids	45.0	10.0	mg/L		43.0				4.55	15	
Duplicate (BL31229-DUP2)	*Source sample: 23L1187-01 (EN10-M)							Prepared & Analyzed: 12/18/2023			
Total Dissolved Solids	145	10.0	mg/L		147				1.37	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23L1187-01	EN10-M	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23L1187-02	Trip-Blank-12-14-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L1187

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: DtB Engineers + Architects	Company:	Company:
Address: 330 Cross Ways Park Dr, Woodbury, NY, 11797	Address: Same	Address: Same
Phone.: 516-364-9890	Phone.:	Phone.:
Contact: Keith Robins	Contact:	Contact:
E-mail: labdata@db-eng.com krobins@db-eng.com	E-mail:	E-mail:

YOUR Project Number: 5629

YOUR Project Name: East Northport Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** ✓

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NY ASP B Package
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- Other: Cat B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN10-M	GW	12/14/23 04:20	Target Compound List, VOCs (624)	1L Plastic	2
Trip-Blank-12/14/23	GW		aluminum, arsenic, cadmium,	250ml Plastic	2
			Calcium, chromium, iron, lead,	40ml Glass Vial	3
			magnesium, mercury, Potassium,		
			Sodium, alkalinity/Bicarbonate,		
			ammonia, nitrate, Chloride,		
			Sulfate, dissolved Solids and		
			Hardness		

Comments:

Preservation: (check all that apply)

HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ✓ NaOH ___

ZnAc ___ Ascorbic Acid ___ Other: ___

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/14/23 5:30	K Barlyork	12/14/23 4PM	K Barlyork	12/15/23 18:30
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				2	12/15/23 18:30 1.1 Degrees C

Technical Report

prepared for:

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Report Date: 12/21/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L1191

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/21/2023
Client Project ID: 5629 East Northport Groundwater
York Project (SDG) No.: 23L1191

D&B Engineers and Architects, P.C.
330 Crossways Park Drive
Woodbury NY, 11797
Attention: Keith Robins

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 15, 2023 and listed below. The project was identified as your project: **5629 East Northport Groundwater**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23L1191-01	EN10-m	Ground Water	12/14/2023	12/15/2023

General Notes for York Project (SDG) No.: 23L1191

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: Cassie L. Mosher **Date:** 12/21/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: EN10-m

York Sample ID: 23L1191-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1191	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP-CT005,NELAC-NY10854	12/18/2023 14:13	12/20/2023 15:56	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*52.3 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.487	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.362	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.735	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.704	1.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.435	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.849	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.538	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.776	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.17	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.911	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.766	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.714	2.07	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.818	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.07	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.238	4.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.911	2.07	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.942	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ

Sample Information

Client Sample ID: EN10-m

York Sample ID: 23L1191-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1191	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.37	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.10	7.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.12	7.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.342	8.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.518	3.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/17/2023 15:49	12/18/2023 22:56	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.22	4.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/17/2023 15:49	12/18/2023 22:56	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.259	4.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/17/2023 15:49	12/18/2023 22:56	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.383	4.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	12/17/2023 15:49	12/18/2023 22:56	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.787	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.85	7.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.34	8.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.43	7.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.725	7.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
919005-14-4	ADONA	ND		ng/L	0.549	7.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.963	2.01	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.890	1.99	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	12/17/2023 15:49	12/18/2023 22:56	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.10	5.18	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.59	25.9	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.80	25.9	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	4.13	20.7	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.64	2.07	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	4.13	20.7	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.86	2.07	1	EPA 1633 Draft 3 Certifications:	12/17/2023 15:49	12/18/2023 22:56	ESJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **EN10-m** **York Sample ID:** **23L1191-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23L1191	5629 East Northport Groundwater	Ground Water	December 14, 2023 4:20 pm	12/15/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	*56.0 %*			*25-150*						
	Surrogate: M5PFHxA	*49.5 %*			*25-150*						
	Surrogate: M4PFHpA	*52.2 %*			*25-150*						
	Surrogate: M3PFHxS	*54.4 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*45.7 %*			*25-150*						
	Surrogate: M6PFDA	*45.9 %*			*25-150*						
	Surrogate: M7PFUdA	*49.6 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*53.3 %*			*25-150*						
	Surrogate: M2PFTeDA	*50.9 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*50.6 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*54.9 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*49.0 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*47.8 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*43.4 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*49.8 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*34.6 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*41.5 %*			*25-200*						
	Surrogate: M9PFNA	*55.3 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*38.5 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*48.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*49.9 %*			*25-150*						
	Surrogate: M3HFPO-DA	*54.5 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*52.6 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*56.4 %*			*25-150*						

Analytical Batch Summary

Batch ID: BL31124 **Preparation Method:** EPA 1633 Prep **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23L1191-01	EN10-m	12/17/23
BL31124-BLK1	Blank	12/17/23
BL31124-BS1	LCS	12/17/23
BL31124-BS2	LCS	12/17/23
BL31124-DUP1	Duplicate	12/17/23

Batch ID: BL31185 **Preparation Method:** EPA 3535A **Prepared By:** THD

YORK Sample ID	Client Sample ID	Preparation Date
23L1191-01	EN10-m	12/18/23
BL31185-BLK1	Blank	12/18/23
BL31185-BS1	LCS	12/18/23
BL31185-MS1	Matrix Spike	12/18/23
BL31185-MSD1	Matrix Spike Dup	12/18/23

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31185 - EPA 3535A											
Blank (BL31185-BLK1)									Prepared: 12/18/2023 Analyzed: 12/20/2023		
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*3.24*		*"*	*4.00*		*81.1*	*36.6-118*				
LCS (BL31185-BS1)									Prepared: 12/18/2023 Analyzed: 12/20/2023		
1,4-Dioxane	3.90	0.300	ug/L	4.00		97.6	50-130				
Surrogate: 1,4-Dioxane-d8	*2.74*		*"*	*4.00*		*68.5*	*36.6-118*				
Matrix Spike (BL31185-MS1)	*Source sample: 23L0893-01 (Matrix Spike)								Prepared: 12/18/2023 Analyzed: 12/20/2023		
1,4-Dioxane	4.74	0.300	ug/L	4.00	0.816	98.0	50-130				
Surrogate: 1,4-Dioxane-d8	*3.22*		*"*	*4.00*		*80.5*	*50-130*				
Matrix Spike Dup (BL31185-MSD1)	*Source sample: 23L0893-01 (Matrix Spike Dup)								Prepared: 12/18/2023 Analyzed: 12/20/2023		
1,4-Dioxane	4.59	0.300	ug/L	4.00	0.816	94.4	50-130		3.09	30	
Surrogate: 1,4-Dioxane-d8	*3.06*		*"*	*4.00*		*76.5*	*50-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31124 - EPA 1633 Prep											
Blank (BL31124-BLK1)											Prepared: 12/17/2023 Analyzed: 12/18/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*34.8*		"	*38.8*		*89.7*	*25-150*				
Surrogate: M5PFHxA	*35.2*		"	*41.7*		*84.5*	*25-150*				
Surrogate: M4PFHpA	*53.7*		"	*41.7*		*129*	*25-150*				
Surrogate: M3PFHxS	*55.9*		"	*39.5*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*53.4*		"	*41.7*		*128*	*25-150*				
Surrogate: M6PFDA	*26.9*		"	*20.8*		*129*	*25-150*				
Surrogate: M7PFUdA	*25.4*		"	*20.8*		*122*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31124 - EPA 1633 Prep											
Blank (BL31124-BLK1)								Prepared: 12/17/2023 Analyzed: 12/18/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*22.1*		*ng/L*	*20.8*		*106*	*25-150*				
Surrogate: M2PFTeDA	*17.1*		*"*	*20.8*		*82.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.56*		*"*	*167*		*0.936*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.6*		*"*	*39.9*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*9.67*		*"*	*83.3*		*11.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.2*		*"*	*41.7*		*120*	*10-150*				
Surrogate: d3-N-MeFOSAA	*79.9*		*"*	*83.3*		*95.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*86.2*		*"*	*83.3*		*104*	*25-150*				
Surrogate: M2-6:2 FTS	*69.3*		*"*	*79.2*		*87.5*	*25-200*				
Surrogate: M2-8:2 FTS	*79.0*		*"*	*80.0*		*98.7*	*25-200*				
Surrogate: M9PFNA	*23.8*		*"*	*20.8*		*115*	*25-150*				
Surrogate: M2-4:2 FTS	*54.8*		*"*	*78.2*		*70.1*	*25-150*				
Surrogate: d-N-MeFOSA	*47.8*		*"*	*41.7*		*115*	*25-150*				
Surrogate: d-N-EtFOSA	*39.5*		*"*	*41.7*		*94.8*	*25-150*				
Surrogate: M3HFPO-DA	*161*		*"*	*167*		*96.4*	*25-150*				
Surrogate: d9-N-EtFOSE	*238*		*"*	*417*		*57.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*272*		*"*	*417*		*65.2*	*25-150*				
LCS (BL31124-BS1)								Prepared: 12/17/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	66.4	3.54	ng/L	70.8		93.8	50-150				
Perfluorohexanoic acid (PFHxA)	72.1	4.00	"	80.0		90.2	50-150				
Perfluoroheptanoic acid (PFHpA)	61.3	4.00	"	80.0		76.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	68.5	3.66	"	73.2		93.6	50-150				
Perfluorooctanoic acid (PFOA)	72.5	4.00	"	80.0		90.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	70.4	3.72	"	74.4		94.7	50-150				
Perfluorononanoic acid (PFNA)	77.9	4.00	"	80.0		97.4	50-150				
Perfluorodecanoic acid (PFDA)	80.7	4.00	"	80.0		101	50-150				
Perfluoroundecanoic acid (PFUnA)	72.1	4.00	"	80.0		90.2	50-150				
Perfluorododecanoic acid (PFDoA)	68.2	4.00	"	80.0		85.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	92.1	4.00	"	80.0		115	50-150				
Perfluorotetradecanoic acid (PFTA)	74.3	4.00	"	80.0		92.9	50-150				
N-MeFOSAA	72.5	4.00	"	80.0		90.6	50-150				
N-EtFOSAA	72.3	4.00	"	80.0		90.4	50-150				
Perfluoropentanoic acid (PFPeA)	147	8.00	"	160		91.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	84.6	4.00	"	80.0		106	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.8	3.82	"	76.4		95.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	61.7	3.86	"	77.2		79.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	314	15.2	"	304		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	291	15.4	"	307		94.9	50-150				
Perfluoro-n-butanoic acid (PFBA)	105	16.0	"	320		32.7	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	139	7.12	"	142		97.7	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	110	8.00	"	160		68.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	8.97	8.00	"	160		5.61	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	379	8.00	"	160		237	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	73.0	3.76	"	75.2		97.0	50-150				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31124 - EPA 1633 Prep											
LCS (BL31124-BS1)								Prepared: 12/17/2023 Analyzed: 12/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	289	15.0	ng/L	300		96.4	50-150				
HFPO-DA (Gen-X)	145	16.0	"	160		90.4	50-150				
11CL-PF3OUdS	166	15.1	"	151		109	50-150				
9CL-PF3ONS	219	15.0	"	150		146	50-150				
ADONA	176	15.1	"	151		117	50-150				
Perfluorododecanesulfonic acid (PFDoS)	55.4	3.88	"	77.6		71.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	85.0	3.84	"	76.8		111	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	154	10.0	"	320		48.3	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	1880	50.0	"	1600		117	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1990	50.0	"	1600		125	50-150				
N-MeFOSE	780	40.0	"	800		97.5	50-150				
N-MeFOSA	80.8	4.00	"	80.0		101	50-150				
N-EtFOSE	809	40.0	"	800		101	50-150				
N-EtFOSA	98.7	4.00	"	80.0		123	50-150				
Surrogate: M3PFBS	*37.8*		"	*38.8*		*97.5*	*25-150*				
Surrogate: M5PFHxA	*45.2*		"	*41.7*		*108*	*25-150*				
Surrogate: M4PFHpA	*61.5*		"	*41.7*		*148*	*25-150*				
Surrogate: M3PFHxS	*53.7*		"	*39.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*57.1*		"	*41.7*		*137*	*25-150*				
Surrogate: M6PFDA	*26.8*		"	*20.8*		*129*	*25-150*				
Surrogate: M7PFUdA	*26.7*		"	*20.8*		*128*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*24.7*		"	*20.8*		*119*	*25-150*				
Surrogate: M2PFTeDA	*17.3*		"	*20.8*		*83.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.62*		"	*167*		*0.969*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*55.4*		"	*39.9*		*139*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.4*		"	*83.3*		*13.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.2*		"	*41.7*		*127*	*10-150*				
Surrogate: d3-N-MeFOSAA	*85.0*		"	*83.3*		*102*	*25-150*				
Surrogate: d5-N-EtFOSAA	*85.9*		"	*83.3*		*103*	*25-150*				
Surrogate: M2-6:2 FTS	*71.2*		"	*79.2*		*89.9*	*25-200*				
Surrogate: M2-8:2 FTS	*81.5*		"	*80.0*		*102*	*25-200*				
Surrogate: M9PFNA	*27.7*		"	*20.8*		*133*	*25-150*				
Surrogate: M2-4:2 FTS	*68.7*		"	*78.2*		*87.8*	*25-150*				
Surrogate: d-N-MeFOSA	*45.5*		"	*41.7*		*109*	*25-150*				
Surrogate: d-N-EtFOSA	*45.3*		"	*41.7*		*109*	*25-150*				
Surrogate: M3HFPO-DA	*183*		"	*167*		*110*	*25-150*				
Surrogate: d9-N-EtFOSE	*234*		"	*417*		*56.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*296*		"	*417*		*71.0*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31124 - EPA 1633 Prep											
LCS (BL31124-BS2)								Prepared: 12/17/2023 Analyzed: 12/18/2023			
Perfluorobutanesulfonic acid (PFBS)	13.5	3.54	ng/L	14.2		95.1	50-150				
Perfluorohexanoic acid (PFHxA)	14.7	4.00	"	16.0		91.8	50-150				
Perfluoroheptanoic acid (PFHpA)	13.0	4.00	"	16.0		81.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	16.0	3.66	"	14.6		109	50-150				
Perfluorooctanoic acid (PFOA)	15.3	4.00	"	16.0		95.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	16.6	3.72	"	14.9		112	50-150				
Perfluorononanoic acid (PFNA)	18.3	4.00	"	16.0		115	50-150				
Perfluorodecanoic acid (PFDA)	17.3	4.00	"	16.0		108	50-150				
Perfluoroundecanoic acid (PFUnA)	17.1	4.00	"	16.0		107	50-150				
Perfluorododecanoic acid (PFDoA)	16.6	4.00	"	16.0		104	50-150				
Perfluorotridecanoic acid (PFTrDA)	20.5	4.00	"	16.0		128	50-150				
Perfluorotetradecanoic acid (PFTA)	15.7	4.00	"	16.0		98.1	50-150				
N-MeFOSAA	15.6	4.00	"	16.0		97.5	50-150				
N-EtFOSAA	15.5	4.00	"	16.0		96.6	50-150				
Perfluoropentanoic acid (PFPeA)	32.2	8.00	"	32.0		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	18.9	4.00	"	16.0		118	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	17.7	3.82	"	15.3		116	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	16.1	3.86	"	15.4		104	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	71.8	15.2	"	60.8		118	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	63.0	15.4	"	61.4		103	50-150				
Perfluoro-n-butanoic acid (PFBA)	26.1	16.0	"	64.0		40.7	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	29.8	7.12	"	28.5		104	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	28.1	8.00	"	32.0		87.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.59	8.00	"	32.0		4.96	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	85.6	8.00	"	32.0		268	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	15.6	3.76	"	15.0		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	63.6	15.0	"	60.0		106	50-150				
HFPO-DA (Gen-X)	32.5	16.0	"	32.0		101	50-150				
11CL-PF3OUdS	30.7	15.1	"	30.2		101	50-150				
9CL-PF3ONS	42.2	15.0	"	29.9		141	50-150				
ADONA	36.2	15.1	"	30.2		120	50-150				
Perfluorododecanesulfonic acid (PFDoS)	11.8	3.88	"	15.5		75.9	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	21.4	3.84	"	15.4		139	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	39.7	10.0	"	64.0		62.0	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	401	50.0	"	320		125	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	462	50.0	"	320		144	50-150				
N-MeFOSE	162	40.0	"	160		101	50-150				
N-MeFOSA	19.1	4.00	"	16.0		119	50-150				
N-EtFOSE	174	40.0	"	160		109	50-150				
N-EtFOSA	20.2	4.00	"	16.0		126	50-150				
Surrogate: M3PFBS	*39.4*		*"*	*38.8*		*102*	*25-150*				
Surrogate: M5PFHxA	*46.5*		*"*	*41.7*		*111*	*25-150*				
Surrogate: M4PFHpA	*66.3*		*"*	*41.7*		*159*	*25-150*				
Surrogate: M3PFHxS	*58.0*		*"*	*39.5*		*147*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.4*		*"*	*41.7*		*135*	*25-150*				
Surrogate: M6PFDA	*24.1*		*"*	*20.8*		*116*	*25-150*				
Surrogate: M7PFUdA	*22.8*		*"*	*20.8*		*110*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31124 - EPA 1633 Prep											
LCS (BL31124-BS2)											
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*21.2*		*ng/L*	*20.8*		*102*	*25-150*				
Surrogate: M2PFTeDA	*13.7*		*"*	*20.8*		*66.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.59*		*"*	*167*		*0.954*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*47.1*		*"*	*39.9*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.0*		*"*	*83.3*		*13.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.6*		*"*	*41.7*		*121*	*10-150*				
Surrogate: d3-N-MeFOSAA	*84.6*		*"*	*83.3*		*102*	*25-150*				
Surrogate: d5-N-EtFOSAA	*84.1*		*"*	*83.3*		*101*	*25-150*				
Surrogate: M2-6:2 FTS	*68.9*		*"*	*79.2*		*86.9*	*25-200*				
Surrogate: M2-8:2 FTS	*76.5*		*"*	*80.0*		*95.6*	*25-200*				
Surrogate: M9PFNA	*25.4*		*"*	*20.8*		*122*	*25-150*				
Surrogate: M2-4:2 FTS	*67.7*		*"*	*78.2*		*86.6*	*25-150*				
Surrogate: d-N-MeFOSA	*47.8*		*"*	*41.7*		*115*	*25-150*				
Surrogate: d-N-EtFOSA	*43.3*		*"*	*41.7*		*104*	*25-150*				
Surrogate: M3HFPO-DA	*200*		*"*	*167*		*120*	*25-150*				
Surrogate: d9-N-EtFOSE	*218*		*"*	*417*		*52.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*257*		*"*	*417*		*61.7*	*25-150*				
Duplicate (BL31124-DUP1)	*Source sample: 23L1165-02 (Duplicate)										
Perfluorobutanesulfonic acid (PFBS)	ND	1.74	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.97	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.97	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.80	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.97	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.83	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	1.97	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	1.97	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.97	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.97	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	0.928	1.97	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	0.992	1.97	"		ND					30	
N-MeFOSAA	ND	1.97	"		ND					30	
N-EtFOSAA	ND	1.97	"		ND					30	
Perfluoropentanoic acid (PFPeA)	0.298	3.93	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.97	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.88	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.90	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.47	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.55	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	7.86	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.50	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.93	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.93	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	3.93	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.85	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31124 - EPA 1633 Prep											
Duplicate (BL31124-DUP1)	*Source sample: 23L1165-02 (Duplicate)								Prepared: 12/17/2023 Analyzed: 12/18/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.37	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	7.86	"		ND					30	
11CL-PF3OUdS	ND	7.43	"		ND					30	
9CL-PF3ONS	ND	7.35	"		ND					30	
ADONA	ND	7.43	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.91	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.89	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.91	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	24.6	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	24.6	"		ND					30	
N-MeFOSE	8.86	19.7	"		ND					30	
N-MeFOSA	ND	1.97	"		ND					30	
N-EtFOSE	12.5	19.7	"		ND					30	
N-EtFOSA	ND	1.97	"		ND					30	
Surrogate: M3PFBS	*14.2*		"	*19.1*		*74.3*	*25-150*				
Surrogate: M5PFHxA	*17.6*		"	*20.5*		*85.7*	*25-150*				
Surrogate: M4PFHpA	*28.2*		"	*20.5*		*138*	*25-150*				
Surrogate: M3PFHxS	*25.2*		"	*19.4*		*130*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*23.2*		"	*20.5*		*113*	*25-150*				
Surrogate: M6PFDA	*12.5*		"	*10.2*		*122*	*25-150*				
Surrogate: M7PFUdA	*11.8*		"	*10.2*		*116*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.2*		"	*10.2*		*109*	*25-150*				
Surrogate: M2PFTeDA	*7.79*		"	*10.2*		*76.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.611*		"	*82.1*		*0.745*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*24.9*		"	*19.6*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.50*		"	*40.9*		*6.11*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*25.7*		"	*20.5*		*125*	*10-150*				
Surrogate: d3-N-MeFOSAA	*34.8*		"	*40.9*		*85.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*39.9*		"	*40.9*		*97.4*	*25-150*				
Surrogate: M2-6:2 FTS	*31.6*		"	*38.9*		*81.2*	*25-200*				
Surrogate: M2-8:2 FTS	*34.5*		"	*39.3*		*87.6*	*25-200*				
Surrogate: M9PFNA	*12.9*		"	*10.2*		*126*	*25-150*				
Surrogate: M2-4:2 FTS	*27.3*		"	*38.4*		*71.1*	*25-150*				
Surrogate: d-N-MeFOSA	*23.0*		"	*20.5*		*112*	*25-150*				
Surrogate: d-N-EtFOSA	*19.1*		"	*20.5*		*93.0*	*25-150*				
Surrogate: M3HFPO-DA	*77.5*		"	*82.1*		*94.4*	*25-150*				
Surrogate: d9-N-EtFOSE	*112*		"	*205*		*54.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*139*		"	*205*		*67.7*	*25-150*				

Sample and Data Qualifiers Relating to This Work Order

J — Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23L1191

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: D+B Engineers + Architects	Company:	Company:
Address: 330 Crossways Park Dr. Woodbury, NY 11797	Address: 11	Address: 11 Same
Phone: 516-364-9890	Phone.: Same	Phone.:
Contact: Keith Robins	Contact: 11	Contact: 11
E-mail: labdata@db-eng.com KRobins@dbreng.com	E-mail:	E-mail:

YOUR Project Number: 5629

YOUR Project Name: East NorthPort Groundwater

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Daniel Sassone

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other: CAT B

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EN10-M	GW	12/14/23@4:20	Full Perg Polyfluoroalkyl Substances (1633) & 1,4 Dioxane (8270) low detection (0.2ng/L) Required	500mL Amber 500mL Plastic	1 2

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	12/14/23 5:58	K Barlow-K	12/15/23 4PM	K Barlow-K	12/15/23 1830
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					12/15/23 1830 2.7 Degrees C