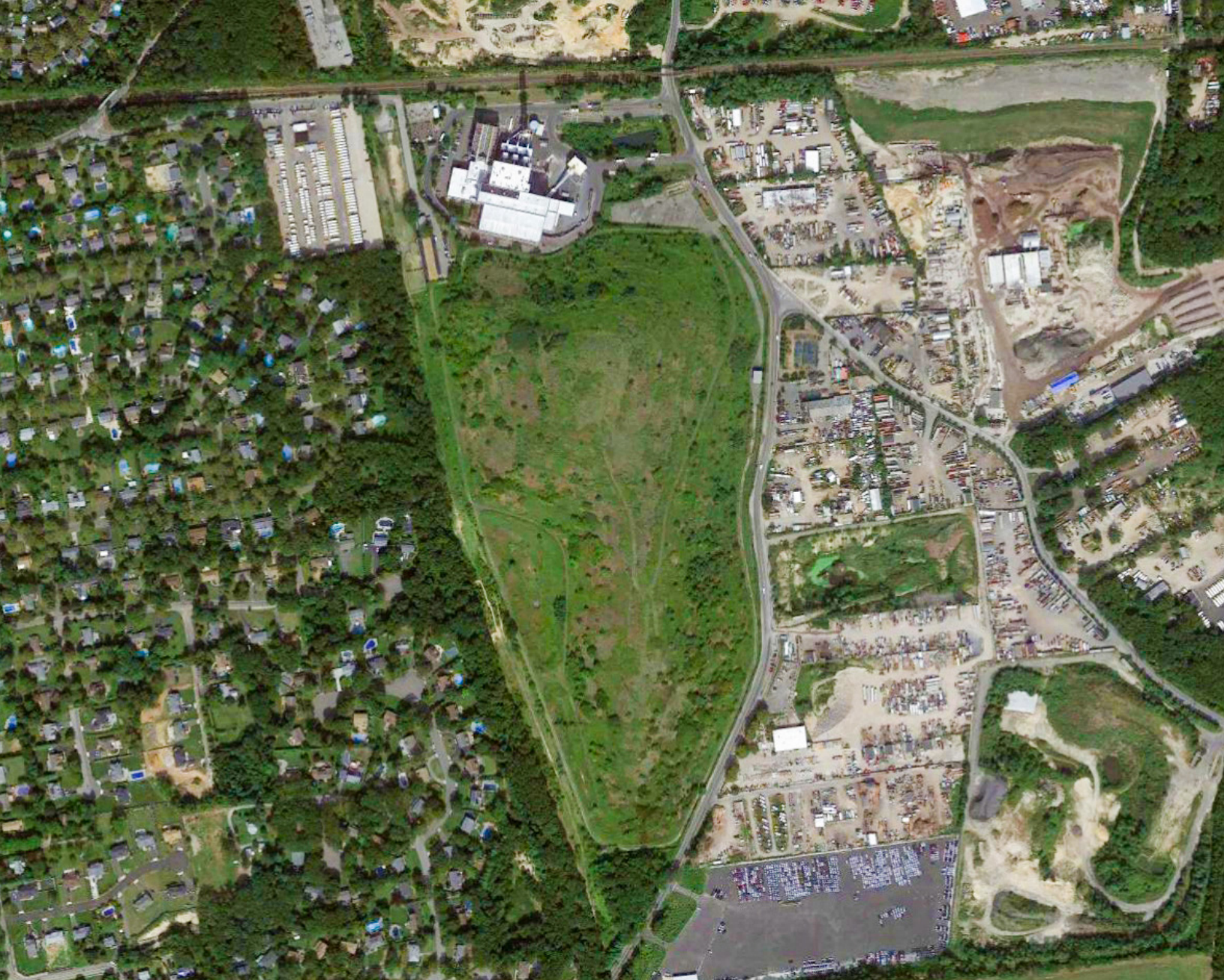




TOWN OF HUNTINGTON - EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING REPORT
FIRST SEMI-ANNUAL REPORT 2021



D&B ENGINEERS
AND ARCHITECTS

OCTOBER 2021

GROUNDWATER AND SURFACE WATER MONITORING PROGRAM

FIRST SEMI-ANNUAL RESULTS OF 2021

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

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OCTOBER 2021

**EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
FIRST SEMI-ANNUAL RESULTS OF 2021**

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1.0 INTRODUCTION

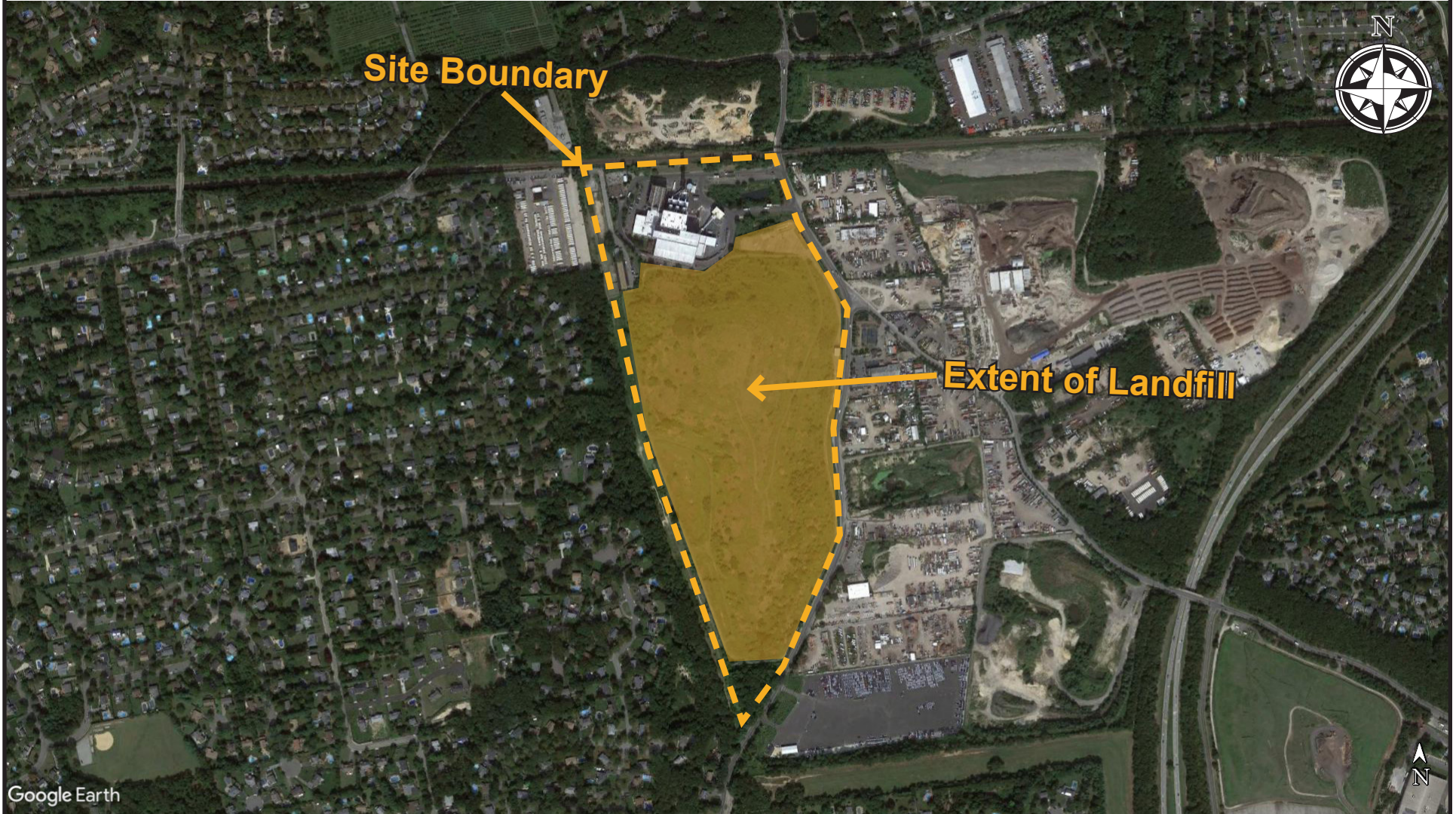
This report presents the field and analytical results obtained in support of the Groundwater and Surface Water Monitoring Program conducted during the First Semi-annual event (second quarter of 2021), for the East Northport Landfill, on behalf of the Town of Huntington (TOH), Department of Environmental Waste Management. Groundwater sampling was performed by D&B Engineers and Architects (D&B) on July 7-8, 2021, and July 12-13, 2021. Surface water sampling was performed on July 20, 2021. 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 and 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



TOWN OF HUNTINGTON - EAST NORTHPORT LANDFILL
99 TOWN LINE ROAD
EAST NORTHPORT, NY 11731

SITE LOCATION MAP

Figure 1-1

west, the landfill is bounded by a utility right-of-way owned by PSEG Long Island which is followed by residential use land.

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.

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 regarded 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.

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. 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

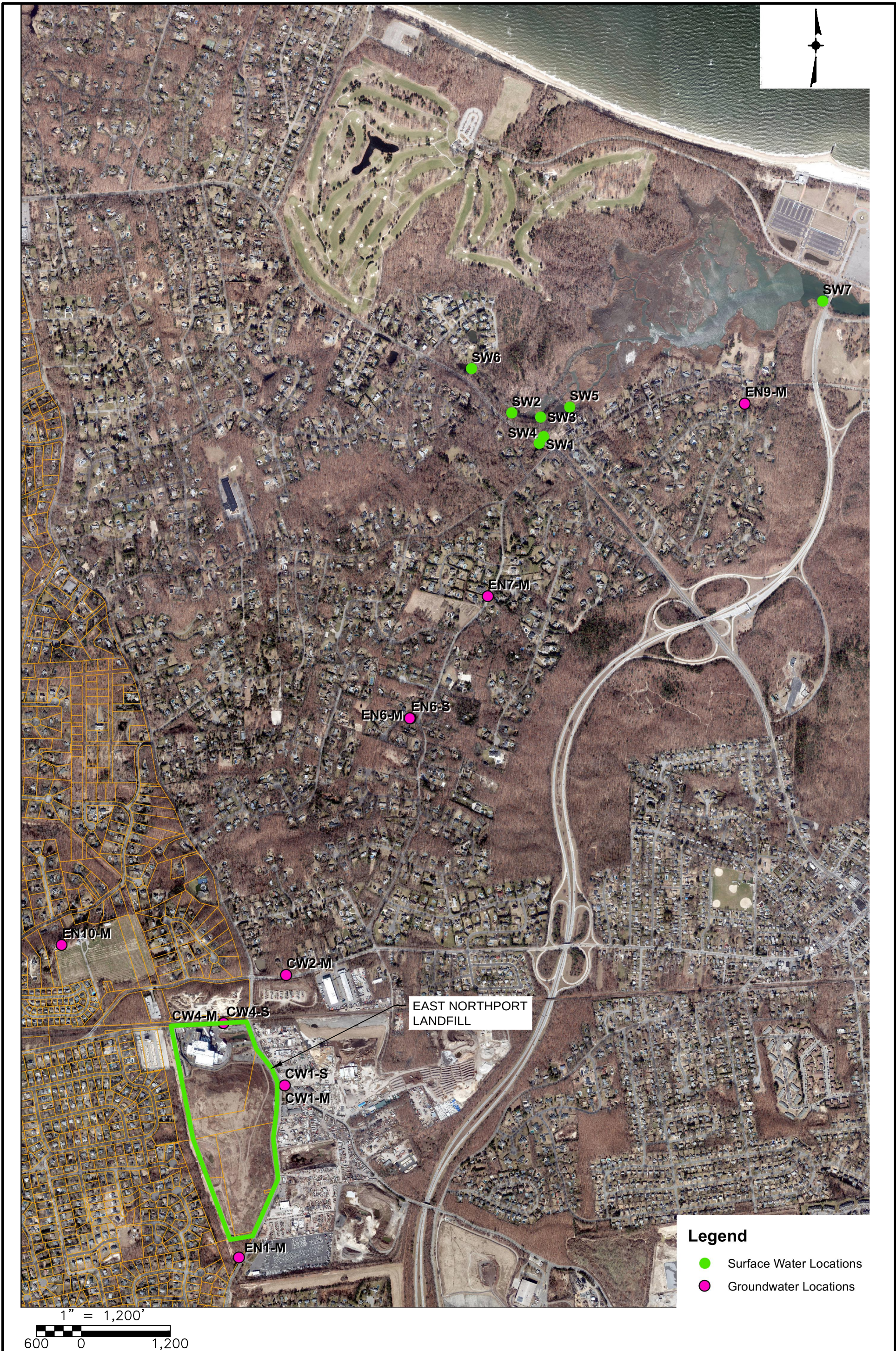
This Semi-annual Groundwater and Surface Water Monitoring Program Report includes a discussion of the sample locations, sampling procedures, laboratory analyses, field and analytical results, including a comparison of the analytical results of this second quarter 2021 sampling event to applicable New 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 (11) wells. The locations of the groundwater monitoring wells are shown on **Figure 2-1**. All eleven (11) wells were sampled as part of the First Semi-annual (second quarter 2021) sampling event. Well construction information for these wells are summarized on **Table 2-1**.

Additionally, a total of seven (7) 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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TOWN OF HUNTINGTON - EAST NORTHPORT LANDFILL
99 TOWNLANE ROAD
EAST NORTHPORT, NY 11731
**GROUNDWATER MONITORING WELL AND
SURFACE WATER SAMPLE LOCATIONS**

Table 2-1

**EAST NORTHPORT LANDFILL
SEMI-ANNUAL GROUNDWATER AND SURFACE WATER 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	37 to 43	112.92	Cross gradient
CW1-M	6	92	18.5 to 24.5	111.68	Cross gradient
CW2-M	4	117	13.5 to 19.5	130.57	Downgradient
CW4-S	4	117	30 to 36*	147.19	Downgradient
CW4-M	4	148	-1.5 to -7.5*	146.94	Downgradient
EN1-M	4	176	-52 to -32	124.24	Upgradient
EN6-S	4	115	19 to 39	133.80	Downgradient
EN6-M	4	180	-47 to -27	132.62	Downgradient
EN7-M	4	230	-176 to -166	54.17	Downgradient
EN9-M	4	135	-104 to -94	31.28	Downgradient
EN10-M	4	440	-161 to -141	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 all the wells, except for 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 protocols were changed due to the prevalence of PFAS substances 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. Due to the operating limitations of the low-flow sampling equipment (bladder pump and air source), well EN10-M was purged utilizing a 2-inch Grundfos submersible pump connected to HDPE tubing.

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 done so 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 VOC 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 sample 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 First Semi-annual (second quarter 2021) 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 7 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 first semi-annual (second quarter 2021) 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 (1996 through 2020) for the monitoring wells are provided in **Appendix B**.

4.2.1 Volatile Organic Compounds

The analytical results for the VOC 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
FIRST SEMI-ANNUAL GROUNDWATER SAMPLING-SECOND QUARTER 2021
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	7.55	18.16	0.944	0	-178	0.35	0.5	0.0	Submersible Pump
CW1-M	7.66	17.74	0.248	47	-147	0.32	0.1	0.0	Submersible Pump
CW2-M	6.57	14.46	0.183	0	47	0.35	0.1	0.0	Submersible Pump
CW4-S	6.84	17.35	0.230	6	115	1.77	0.1	0.0	Submersible Pump
CW4-M	6.79	14.81	0.240	2.8	120	5.85	0.1	0.0	Submersible Pump
EN1-M	6.59	15.26	0.288	37.9	95	5.62	0.1	0.0	Bladder Pump
EN6-S	5.76	13.57	0.297	0	199	8.08	0.1	0.0	Submersible Pump
EN6-M	6.14	12.90	0.410	0	187	2.89	0.2	0.0	Submersible Pump
EN7-M	7.15	13.95	0.985	44	-62	0.31	0.5	0.0	Bladder Pump
EN9-M	6.64	11.77	0.582	1.9	88	5.65	0.3	0.0	Submersible Pump
EN10-M	6.31	14.96	0.199	0	198	7.44	0.1	0.0	Submersible Pump

Table 4-1(Continued)

**EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
FIRST SEMI-ANNUAL GROUNDWATER SAMPLING- SECOND QUARTER 2021
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	58.60	77.40	6	150	7/8/21	11:25 a.m.	KR	Mostly cloudy, 75-85 F
CW1-M	58.50	104	6	400	7/8/21	10:20 a.m.	KR	Mostly cloudy, 75-85 F
CW2-M	79.60	116.40	4	120	7/7/21	5:10 p.m.	KR	Partly cloudy, 75-85 F
CW4-S	94.40	116.65	4	45	7/8/21	3:40 p.m.	KR	Mostly cloudy, 75-85 F
CW4-M	94.54	147.65	4	165	7/8/21	1:45 p.m.	KR	Mostly cloudy, 75-85 F
EN1-M	64.72	175.50	4	5	7/12/21	3:10 p.m.	KR	Partly cloudy, 75-85 F
EN6-S	96.95	113.40	4	50	7/7/21	12:40 p.m.	KR	Partly cloudy, 85-95 F
EN6-M	95.92	173.60	4	150	7/7/21	10:55 a.m.	KR	Partly cloudy, 75-85 F
EN7-M	25.59	224	4	10	7/12/21	11:00 a.m.	KR	Partly cloudy, 75-85 F
EN9-M	27.15	133.50	4	250	7/7/21	3:15 p.m.	KR	Partly cloudy, 85-95F
EN10-M	232.00*	440	4	420	7/13/21	5:30 p.m.	KR	Partly cloudy, 65-75 F

Notes:

Final field parameter readings were measured immediately prior to 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		

*Depth to Water estimated due to water level meter limitations.

Table 4-2
EAST NORTHPORT LANDFILL
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
FIRST SEMI-ANNUAL 2021 SURFACE WATER SAMPLING-SECOND QUARTER 2021
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)
SW-1	6.03	16.61	0.290	220	159	2.95	0.1
SW-2	7.03	18.80	2.77	71.6	101	7.22	1.4
SW-3	7.03	19.58	13.5	24.6	94	5.84	7.8
SW-4	6.43	15.39	0.304	0	107	6.37	0.1
SW-5	6.63	19.68	20.9	33.3	102	2.91	12.4
SW-6	7.53	27.66	0.371	12.9	25	7.04	0.2
SW-7	7.51	26.84	26.0	28.7	100	9.37	15.7

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* was detected above the groundwater standard (25 ug/l) in cross-gradient well CW1-S at a concentration of 33.3 ug/l. Arsenic was not detected within upgradient well EN1-M.
- *Cadmium* was detected above the groundwater standard (5 ug/l) in downgradient wells CW2-M and CW4-S at concentrations of 10.4 ug/l and 16.7 ug/l, respectively. Cadmium was not detected within upgradient well EN1-M.
- *Chromium* was detected above the groundwater standard (200 ug/l) in upgradient well EN1-M at a concentration of 394 ug/l.
- *Iron* was detected above the groundwater standard (300 ug/l) in downgradient wells CW2-M, CW4-S, EN6-S, EN6-M and EN7-M at concentrations ranging from 619 ug/l to 1,570 ug/l. In cross-gradient wells CW1-S and CW1-M, iron was detected at concentrations of 14,600 ug/l and 7,340 ug/l, respectively, which also exceeded the groundwater standard. In upgradient well EN1-M, iron was detected above the groundwater standard at a concentration of 2,080 ug/l.
- *Sodium* was detected above the groundwater standard (20,000 ug/l) in downgradient wells CW2-M, EN6-S, EN6-M, EN7-M and EN9-M at concentrations ranging from 38,200 ug/l to 71,600 ug/l. In cross-gradient well CW1-S, sodium exceeded the groundwater standard at a concentration of 74,300 ug/l. In upgradient well EN1-M, sodium was detected at a concentration of 24,300 ug/l, which also exceeded the groundwater standard.

Select inorganic parameters which exceeded the Class GA groundwater standards during the prior sampling event (fourth quarter 2020) compared to the results of this sampling event is presented below:

- *Arsenic* was not detected within well CW1-S during the prior sampling event, compared to a concentration of 33.3 ug/l this sampling event. Conversely, arsenic was detected at well CW1-M a concentration of 44.0 ug/l during the prior sampling event but not detected this sampling event.
- *Cadmium* was detected within upgradient well EN1-M at a concentration of 100 ug/l during the prior sampling event but was not detected this sampling event. Conversely, cadmium was not detected within downgradient wells CW2-M and CW4-S during the prior sampling event, compared to concentrations of 10.4 ug/l and 16.7 ug/l, respectively, this sampling event.
- *Chromium* was not detected within upgradient well EN1-M during the prior sampling event, compared to a concentration of 394 ug/l during this sampling event. Conversely,

chromium was detected within well EN6-M at a concentration of 217 ug/l during the prior sampling event, but not detected this sampling event.

- *Iron* was detected within wells; CW1-M, EN1-M, EN6-S, EN7-M, EN9-M, and EN10-M during the prior sampling event, at concentrations ranging from 335 ug/l to 18,400 ug/l. The concentration of iron has exceeded NYSDEC's Class GA Drinking Water Standard for consecutive sampling events at wells; CW1-M, EN1-M, EN6-S, and EN7-M. Concentration of iron has decreased below Class GA Standard at wells EN9-M and EN10-M, from 572 ug/l and 6,460 ug/l, to estimated concentration values of 21.2 ug/l and 24.4 ug/l, respectively. The concentration of iron has increased above the Class GA Standard this sampling event in wells; CW1-S from 92 ug/l to 14,600 ug/l, CW2-M from 197 ug/l to 691 ug/l, CW4-S from 131 ug/l to 1,570 ug/l, and EN6-M from 103 ug/l to 772 ug/l.
- *Lead* was detected within well EN10-M at a concentration of 185 ug/l during the prior sampling event but was not detected this sampling event.
- *Sodium* was detected within wells; CW1-M, CW2-M, EN6-S, EN6-M, and EN9-M during the prior sampling event at concentrations ranging from 21,500 ug/l to 69,700 ug/l. The concentration of sodium has exceeded NYSDEC's Class GA Drinking Water Standard for consecutive sampling events at wells; CW2-M, EN6-S, EN6-M, and EN9-M. Concentration of sodium has decreased below Class GA Standard during this sampling event at well CW1-M to a concentration of 10,200 ug/l. Concentration of sodium has increased above the Class GA Standard this sampling event in wells; CW1-S from 10,100 ug/l to 74,300 ug/l, EN1-M from 2,226 ug/l to 24,300 ug/l, and EN7-M from 5,800 ug/l to 142,000 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 31 mg/l and in downgradient well EN7-M at a concentration of 10.6 mg/l. In upgradient well EN1-M, ammonia was detected at concentrations less than 0.1 mg/l.

Select leachate indicators which exceeded the Class GA groundwater standards during the prior sampling event (fourth quarter 2020) compared to the results of this sampling event is presented below:

- *Ammonia* was detected within well CW1-M at a concentration of 22.3 mg/l during the prior sampling event but was not detected this sampling event. Conversely, ammonia was not detected at well CW1-S during the prior sampling event but was detected at a concentration of 31.0 mg/l this 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 NYSDEC Preliminary Target Levels (PTL) and Drinking Water Standards (DWS), as well as for comparison of results from upgradient well EN1-M are discussed below:

- *Perfluorooctane Sulfonic Acid (PFOS)* was detected above the drinking water standard (10 ng/l) in downgradient well EN7-M at a concentration of 24 ng/l. PFOS was detected in upgradient well EN1-M, at an estimated concentration value of 1.6 ng/l.
- *Perfluorooctanoic Acid (PFOA)* was detected above the drinking water standard (10 ng/l) in downgradient well EN7-M at a concentration of 67 ng/l. In upgradient well EN1-M, PFOA was detected at a concentration of 4.7 ng/l.
- *1,4-Dioxane* was detected above the drinking water standard (1 ug/l) in downgradient well EN7-M at a concentration of 16 ug/l. 1,4-Dioxane was detected in upgradient well EN1-M at an estimated concentration value of 0.19 ug/l.

A comparison of Emerging Contaminant concentrations at the selected wells during the prior sampling event (fourth quarter 2020) compared to the results of this sampling event is presented below:

- Emerging Contaminants were not detected in concentrations exceeding their PTL/DWS standards or guidance values during the prior sampling event.

- Total PFAS concentrations detected at wells EN1-M, EN7-M and EN10-M increased this sampling event compared to the prior event. Total PFAS concentration in well EN1-M increased from 14.04 ng/l to 28.24 ng/l, EN7-M increased from 10.56 ng/l to 309.73 ng/l, and EN10-M increased from 12.62 ng/l to 27.87 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 VOC 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**. 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

Eleven (11) groundwater samples, one matrix spike/matrix spike duplicate (MS/MSD) sample set, one field blank and five trip blanks were collected as part of the first semi-annual (second quarter 2021), Groundwater and Surface Water Monitoring Program at the East Northport Landfill. The groundwater samples were collected on July 7-8, 2021; and July 12-13, 2021. The surface water samples were collected on July 20, 2021. All groundwater samples were analyzed for Target Compound List (TCL) Volatile organic compounds (VOCs) by EPA Method 624, select metals and select leachate indicators. Additionally, monitoring wells EN1-M, EN7-M, and EN10-M were analyzed for NYSDEC Emerging Contaminants Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane. The surface water samples collected were analyzed for TCL VOCs and the select leachate indicators, as listed above. Laboratory analyses were performed by Pace Analytical, Melville, 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.

Data packages (70180205 and 70179696) have been reviewed in accordance with the NYSDEC 6/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. All the samples and QA/QC data were reviewed for transcription errors and for compliance with analytical specifications. Data Validation Forms were prepared for the package and are presented in **Appendix G**. Pertinent portions of the laboratory data packages are provided in **Appendix H**.

The findings of the review process are summarized below:

- Methylene chloride was detected in the field blank. It was not detected in the samples therefore qualification of the data was not necessary.
- The %Rs were above the QC limits in the MS and/or MSD for tetrachloroethene associated with samples TRIP BLANK, EN6-M, EN6-S, EN9-M, CW2-M, TRIP BLANK 7/8/2021, CW1-S, CW1-M, CW4-M, CW4-S, TRIP BLANK 7/20/2021, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6 and SW-7. It was not detected in the samples; therefore, qualification of the data was not necessary.
- The %R was below the QC limit in the MS and MSD for 2-chloroethylvinyl ether associated with samples TRIP BLANK 7/7/2021, EN6-M, EN6-S, EN9-M, CW2-M, TRIP

BLANK 7/8/2021, CW1-S, CW1-M, CW4-M and CW4-S. 2-Chloroethylvinyl ether was qualified as an estimated (UJ) in the associated samples.

- The %R was below the QC limits in the MSD for 1,2-dichloroethane associated with samples TRIP BLANK 7/20/2021, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6 and SW-7. 1,2-Dichloroethane was qualified as an estimated (UJ) in associated samples.
- Cadmium, calcium, and potassium were detected in the initial calibration blank. It was not qualified based on sample concentrations.
- The %D was above QC limit in the serial dilution for iron associated with sample EN6-M. Iron was qualified as estimated (J) in sample EN6-M.
- Ammonia detected in the initial calibration blank. Ammonia was qualified as non-detect (UB) in samples EN6-S, EN10-M, CW2-M, SW-1, SW-2, SW-4, SW-5, SW-6 and SW-7.
- The %R was below the QC limit in the LCS for alkalinity, carbonate (CaCO_3) associated with samples EN6-M, EN6-S, EN9-M, CW2-M, CW1-M, CW4-M, CW4-S, EN7-M, EN1-M, BLIND DUPLICATE, EN10-M, and FIELD BLANK and were qualified as estimated (J).
- The %R was below the QC limit in the MS for alkalinity, carbonate (CaCO_3) associated with all samples except CW1-S; and nitrate associated with all GW samples except CW1-S. They were qualified as estimated (UJ/J) in associated samples.
- The %R was above the QC limit in the MS for nitrate associated with all SW samples. Nitrate was detected above the reporting limit in all SW samples, except SW-6 and were qualified as estimated (J).
- 1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) was detected in the FIELD BLANK. No qualification of the data was necessary
- Four surrogates were below the QC limits in sample EN-10M. The following compounds were qualified as an estimated detection limit (UJ) in sample EN10-M: perfluorooctane sulfonamide (FOSA), perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), 1H,1H,2H,2H-perfluorodecane sulfonate (8:2), and perfluorodecanoic acid (PFDA).
- Six surrogates were above the QC limits and two were below QC limits in samples EN7-M. The following compounds were qualified as estimated (J/UJ) in sample EN7-M: n-ethyl-n-((heptadecafluorooctyl)sulphonyl) glycine, perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), and perfluorooctane sulfonamide (FOSA).
- Two surrogates were below the QC limits in sample BLIND DUPLICATE. The following compounds were qualified as an estimated detection limit (UJ) in sample BLIND

DUPLICATE: perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), and perfluorooctane sulfonamide (FOSA).

- A surrogate was below the QC limit in sample EN1-M. Perfluorooctane sulfonamide (FOSA) was qualified as an estimated detection limit (UJ) in sample EN1-M.
- Sample EN7-M had an “E” qualifier on the 1,4-dioxane result. The actual amount is within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope. The “E” qualifier was removed from sample EN7-M result and it was qualified as estimated (J).

No other issues were found with the sample results and 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 (11) 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
FIRST 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	7/8/2021	112.92	58.60	54.32
CW1-M	7/8/2021	111.68	58.50	53.18
CW2-M	7/7/2021	130.57	79.60	50.97
CW4-S	7/8/2021	147.19	94.40	52.79
CW4-M	7/8/2021	146.94	94.54	52.40
EN1-M	7/12/2021	124.24	64.72	59.52
EN6-S	7/7/2021	133.80	96.95	36.85
EN6-M	7/7/2021	132.62	95.92	36.70
EN7-M	7/12/2021	54.17	25.59	28.58
EN9-M	7/7/2021	31.28	27.15	4.13
EN10-M	7/13/2021	259.10	232.00*	Not Calculated

Note: MSL: Mean Seal Level

*Depth to Water estimated due to water level meter limitations.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

The results of the First Semi-annual 2021 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. Surface water samples taken from 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 First Semi-annual 2021 groundwater and surface water sampling event, as well as historic analytical data, the following recommendations are presented:

- The monitoring frequency for the Groundwater and Surface Water Monitoring Program should remain on a semi-annual basis.
- The eleven (11) 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 (7) surface water locations should continue to be analyzed for TCL VOCs and select Leachate Indicators.

The next semi-annual event is tentatively scheduled for November 2021.

APPENDIX A-1

MONITORING WELL SAMPLE RESULTS VOLATILE ORGANIC COMPOUNDS

Appendix A-1
East Northport Landfill
Semi-Annual Groundwater Monitoring
June 2021 Sampling Event
Monitoring Well Sample Results
Volatile Organic Compounds

Sample ID Sample Date			CW1-S 7/8/21	CW1-M 7/8/21	CW2-M 7/7/21	CW4-S 7/8/21	CW4-M 7/8/21	EN1-M 7/12/21	EN6-S 7/7/21	EN6-M 7/7/21	EN7-M 7/12/21	EN9-M 7/7/21	EN10-M 7/13/21
Units in ug/l													
	CAS Number	NYSDEC Class GA Standard or Guidance Value											
VOLATILE COMPOUNDS													
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	79-00-5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	56-23-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U
cis-1,3-Dichloropropene	10061-01-5	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	75-09-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	156-60-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	79-01-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	75-01-4	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	1330-20-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	110-75-8	--	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 U	1 UJ	1 U
Total Volatile Organic Compounds			ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND

Footnotes/Qualifiers:

ug/l: Micrograms per liter

NA: Not analyzed

--: No standard

J: Estimated value or limit

U: Compound was analyzed for but not detected

ND Not detected

APPENDIX A-2

MONITORING WELL SAMPLE RESULTS INORGANIC PARAMETERS

Appendix A-2
East Northport Landfill
Semi-Annual Groundwater Monitoring
June 2021 Sampling Event
Monitoring Well Sample Results
Total and Dissolved Metals

Sample ID Sample Date			CW1-S 7/8/21	CW1-M 7/8/21	CW2-M 7/7/21	CW4-S 7/8/21	CW4-M 7/8/21	EN1-M 7/12/21	EN6-S 7/7/21	EN6-M 7/7/21	EN7-M 7/12/21	EN9-M 7/7/21	EN10-M 7/13/21
Units in ug/l													
METALS	CAS Number	NYSDEC Class GA Standard or Guidance Value											
Aluminum	7429-90-5	--	97.3 J	494	680	133 J	107 J	72.9 J	77.2 J	50.4 J	381	200 U	200 U
Arsenic	7440-38-2	25	<u>33.3</u>	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cadmium	7440-43-9	5	2.5 U	2.5 U	<u>10.4</u>	<u>16.7</u>	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Calcium	7440-70-2	--	40700	20700	19800	16600	24300	22800	10900	26000	74900	29500	15400
Chromium	7440-47-3	200	10 U	10 U	2.4 J	2.4 J	2.4 J	<u>394</u>	48.8	2.1 J	1.3 J	10 U	1.6 J
Iron	7439-89-6	300	<u>14600</u>	<u>7340</u>	<u>691</u>	<u>1570</u>	230	<u>2080</u>	<u>619</u>	<u>772 J</u>	<u>1370</u>	21.2 J	24.4 J
Lead	7439-92-1	25	3.1 J	5.3	17.1	14.7	2.4 J	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	7439-95-4	35000	13500	12900	4990	6080	8960	8430	4410	7680	18600	15200	5790
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	--	33000	2480 J	8370	4030 J	1480 J	1690 J	2080 J	4550 J	22400	2550 J	2190 J
Sodium	7440-23-5	20000	<u>74300</u>	10200	<u>45600</u>	16200	16000	<u>24300</u>	<u>38200</u>	<u>39500</u>	<u>142000</u>	<u>71600</u>	17600

Footnotes/Qualifiers:

ug/l Micrograms per liter

U Compound was analyzed for but not detected

J Estimated value

-- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

APPENDIX A-3

MONITORING WELL SAMPLE RESULTS LEACHATE INDICATORS

Appendix A-3
East Northport Landfill
Semi-Annual Groundwater Monitoring
June 2021 Sampling Event
Monitoring Well Sample Results
Leachate Indicator Parameters

Page 1 of 1

Sample ID Sample Date			CW1-S 7/8/21	CW1-M 7/8/21	CW2-M 7/7/21	CW4-S 7/8/21	CW4-M 7/8/21	EN1-M 7/12/21	EN6-S 7/7/21	EN6-M 7/7/21	EN7-M 7/12/21	EN9-M 7/7/21	EN10-M 7/13/21
Units in mg/l													
LEACHATE INDICATORS	CAS Number	NYSDEC Class GA Standard or Guidance Value											
Alkalinity, Carbonate	ALK	--	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Ammonia, as N	7664-41-7	2	31	0.3	0.14 UB	0.2	0.1 U	0.1 U	0.057 UB	0.36	10.6	0.1 U	0.11 UB
Chloride	16887-00-6	250	64.6	20.1	63.8	32.5	31.1	56.1	57.4	78.6	170	186	28.5
Hardness	HARD	--	157	105	70	66.5	97.6	91.6	45.4	96.5	264	136	62.3
Nitrate	14797-55-8	10	0.16	0.076 J	2 J	5.9 J	5.7 J	4.9 J	4.2 J	3.5 J	0.05 UJ	0.71 J	5.2 J
Sulfate	14808-79-8	250	54.3	49.4	24.4	19.5	27.8	28.5	16.7	14	60	17.1	23.5
Total Dissolved Solids	E-10173	--	422	175	236	202	208	254	164	252	652	478	167

Footnotes/Qualifiers:

mg/l Milligrams per liter
U Compound was analyzed for but not detected
UB Non-detected based on blank result
J Estimated detection limit or value
-- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

APPENDIX A-4

MONITORING WELL SAMPLE RESULTS EMERGING CONTAMINANTS

Appendix A-4
East Northport Landfill
Semi-Annual Groundwater Monitoring
June 2021 Sample Results
Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane

Sample ID Sample Date			EN1-M 7/12/2021	EN7-M 7/12/2021	EN10-M 7/13/2021
PFAS in ng/l	CAS Number	Preliminary Target Levels (PTL) / Drinking Water Standards (DWS)			
1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	39108-34-4	100 PTL	1.4 U	1.4 U	0.55 UJ
1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	27619-97-2	100 PTL	1.1 U	2.6	11
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	100 PTL	0.96 U	0.96 U	0.69 U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	100 PTL	0.93 U	6.8 J	0.57 U
Perfluorobutanesulfonic Acid	375-73-5	100 PTL	0.54 J	6.4	0.57
Perfluorobutyric Acid (PFBA)	375-22-4	100 PTL	2.9	57	3.7
Perfluorodecane Sulfonic Acid	335-77-3	100 PTL	0.6 U	0.6 U	0.29 U
Perfluorodecanoic Acid (PFDA)	335-76-2	100 PTL	0.38 U	0.38 U	0.44 UJ
Perfluorododecanoic Acid (PFDoA)	307-55-1	100 PTL	0.29 U	0.29 U	0.4 U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	100 PTL	1.3 U	1.3 U	0.85 U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100 PTL	1.6 J	31	1.5
Perfluorohexanesulfonic Acid	355-46-4	100 PTL	8.4	16	1.6
Perfluorohexanoic Acid (PFHxA)	307-24-4	100 PTL	4.4	66	4.4
Perfluorononanoic Acid	375-95-1	100 PTL	0.48 U	0.96 J	0.31 U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	100 PTL	0.44 UJ	0.44 UJ	0.38 UJ
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	10 DWS	1.6 J	<u>24</u>	0.54 U
Perfluorooctanoic Acid (PFOA)	335-67-1	10 DWS	4.7	<u>67</u>	1.7
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100 PTL	4.1	32	3.4
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	100 PTL	0.82 U	0.82 UJ	0.33 UJ
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	100 PTL	1.2 U	1.2 UJ	0.25 UJ
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100 PTL	0.49 U	0.49 U	0.33 U
Total PFAS		500 PTL	28.24	309.76	27.87
1,4-Dioxane (P-Dioxane) In ug/L	123-91-1	1 DWS	0.19 J	<u>16 J</u>	0.18 J

Exceeds Preliminary target levels

PTL: Preliminary Target Levels

DWS: Drinking Water Standards

Footnotes/Qualifiers:

ng/l: Nanogram per liter

ug/l: Micrograms per liter

U: Analyzed for but not detected

UB: Qualified as non detect due to blank result

J: Estimated value or limit

APPENDIX B

HISTORICAL GROUNDWATER RESULTS

**NYSDEC
Class GA
Standard**

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	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 (PFTTrDA)	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

[illegible]

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)

[illegible]

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(10.00)	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)
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	ND(1.00)	ND(1.00)						
Chloroethane	ND(2.00)	ND(2.00)						
Methylene Chloride	ND(1.00)	ND(1.00)						
Trichlorofluoromethane	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

9/00
ND(1.1)
ND(0.6)
ND(1.0)
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4/05
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ND(1.10)
ND(0.98)
ND(0.58)
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ND(0.24)
ND(6.20)
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4/15
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9/19
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ND(10.00)
ND(100.00)
ND(1.00)
NA

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)	ND(0.2)	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)

[illegible]

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)

[illegible]

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)[illegible]

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	9,440.0 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)

[illegible]

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)[illegible]

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(10.00)	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	ND(1.00)	ND(1.00)							
Chloroethane	ND(2.00)	ND(2.00)							
Methylene Chloride	ND(1.00)	ND(1.00)							
Trichlorofluoromethane	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)[illegible]

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)[illegible]

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
June 2021 Sampling Event
Surface Water Sample Results
Volatile Organic Compounds

Sample ID Sample Date			SW-1 7/20/21	SW-2 7/20/21	SW-3 7/20/21	SW-4 7/20/21	SW-5 7/20/21	SW-6 7/20/21	SW-7 7/20/21
Units in ug/l									
VOLATILE COMPOUNDS	CAS Number	Class C Surface Water Standard							
1,1,1-Trichloroethane	71-55-6	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	79-00-5	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	--	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,2-Dichloropropane	78-87-5	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	71-43-2	210	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	56-23-5	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	10061-01-5	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	124-48-1	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	100-41-4	17	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	75-09-2	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	108-88-3	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	156-60-5	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	79-01-6	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	75-01-4	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	1330-20-7	65	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	110-75-8	--	1 U	1 U	1 U	1 U	1 U	1 U	1 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
J Estimated value or limit
-- No standard

APPENDIX C-2

SURFACE WATER SAMPLE RESULTS LEACHATE INDICATORS

Appendix C-2
East Northport Landfill
Semi-Annual Groundwater Monitoring
June 2021 Sampling Event
Surface Water Sample Results
Metals and Leachate Indicator Parameters

Page 1 of 1

Sample ID Sample Date			SW-1 7/20/21	SW-2 7/20/21	SW-3 7/20/21	SW-4 7/20/21	SW-5 7/20/21	SW-6 7/20/21	SW-7 7/20/21
Units in mg/l									
Metals	CAS Number	Class C Surface Water Standard							
Calcium*		--	19.7	41.7	93.3	20	23.3	13	18.5
Magnesium*		--	7.8	45.1	23.5	8.16	17	7.19	59.8
LEACHATE INDICATORS	CAS Number	Class C Surface Water Standard							
Alkalinity, Carbonate	ALK	--	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Ammonia, as N	7664-41-7	2.2	0.055 UB	0.082 UB	0.39	0.14 UB	0.11 UB	0.099 UB	0.2 UB
Chloride	16887-00-6	--	56.1	691	3230	64.5	237	169	7730
Hardness	HARD	--	81.3	290	1200	83.5	128	62.1	2800
Nitrate	14797-55-8	--	0.83 J	1.2 J	0.99 J	1.9 J	1.1 J	0.05 U	0.4 J
Sulfate	14808-79-8	--	16.3	86.3	563	19.4	35.7	18.1	1160
Total Dissolved Solids	E-10173	--	91	571	6030	242	442	230	9630

Footnotes/Qualifiers:

mg/l Milligrams per liter
U Compound was analyzed for but not detected
UB Non-detected based on blank result
J Estimated detection limit or value
-- No standard or not analyzed
* Metal parameters analyzed in order to calculate Hardness

APPENDIX D

HISTORICAL SURFACE WATER RESULTS

Table 3

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

Reported in Micrograms per liter

Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-DUP	TB-SW	NYSDEC Class GA Standard
Chloromethane	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)	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)	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)	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)	5.0
Methylene Chloride	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
Trichlorofluoromethane	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)	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)	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)	5.0
Chloroform	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)	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)	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)	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)	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)	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)	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)	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)	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)	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)	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)	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)	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)	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)	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)	5.0
Tetrachloroethene	1.10 J	0.71 J	1.70	0.92 J	0.44 J	ND(1.50)	ND(1.50)	1.80	ND(1.50)	5.0

Table 3 continued

Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-DUP	TB-SW	NYSDEC Class GA Standard
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)	5.0
Chlorobenzene	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
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)	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)	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)	3.0
1,4-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)	3.0
Acetone	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	ND(10.00)	2.4 J	ND(10.00)	ND(10.00)	ND(10.00)	50.0 GV
Tert-Butyl Alcohol	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)	0.27 J	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 Class GA Guidance Value for Source of Drinking Water

NS/GV: No NYSDEC Standard or Guidance Value Established

*Standard of 0.4 applies to sum of cis and trans 1,3-Dichloropropene

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

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)

[illegible]

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)

[illegible]

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)

[illegible]

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)

[illegible]

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)

[illegible]

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)

[illegible]

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

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/8/2021

WELL ID: CW1-M Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 104.00"
Initial static water level (feet from top of casing) 58.50'
Approximate Pump Inlet (feet from top of casing)..... _____

Purging Method

Airlift _____ Centrifugal _____
Bailer _____ Pos. Displ. _____
Submersible _____ Disposable _____
Pump x 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: 45.50 ft. of water x 1.47 = 68.25 gallons

volume of water removed: _____ 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	8.98	18.77	0.216	229	9.77	30	0.1
50	7.91	18.02	0.233	464	1.44	-163	0.1
100	7.72	17.87	0.244	890	0.72	-154	0.1
150	7.69	17.79	0.245	276	6.25	-152	0.1
200	7.67	17.76	0.244	138	3.87	-155	0.1
250	7.75	17.77	0.244	299	2.90	-155	0.1
300	7.66	17.72	0.249	475	0.32	-153	0.1
350	7.66	17.68	0.248	110	0.70	-143	0.1
400	7.66	17.74	0.248	47	0.32	-147	0.1

Purging Rate: 5 GPM Purging Time: 80 min Sampling Rate :NA
Well headspace PID =0.0 ppm

Sampling

Time of Sample Collection: 10:20 a.m.

Method: _____ Analyses (Pace Analytical Laboratory)
_____ Submersible Pump X VOCs
_____ In-Line Filter (Diss. Metals) _____
_____ Pos. Disp. Pump X Metals
X Disposable bailer _____ Leachate
_____ _____ Parameters
_____ Dedicated pump _____

Observations

Weather/Temperature: Mostly cloudy, 75-80 F, humid
Sample description: Clear-slightly cloudy
Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/8/2021

WELL ID: CW1-S Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 77.40'
Initial static water level (feet from top of casing) 58.60
Approximate Pump Inlet (feet from top of casing).....

Purging Method

Airlift _____ Centrifugal _____
Bailer _____ Pos. Displ. _____
Submersible _____ Disposable _____
Pump x 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: 18.80 ft. of water x 1.47 = 28.2 gallons

volume of water removed: _____ 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	7.68	18.47	0.884	22.2	5.32	-153	0.4
25	7.58	18.22	0.927	1.1	2.16	-165	0.5
50	7.57	18.19	0.935	0	1.40	-171	0.5
75	7.56	18.17	0.940	0	0.85	-174	0.5
100	7.55	18.17	0.940	0	0.49	-176	0.5
125	7.55	18.17	0.942	0	0.43	-177	0.5
150	7.55	18.16	0.944	0	0.36	-178	0.5

Purging Rate: 5 GPM Purging Time: 30 min Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling

Time of Sample Collection: 11:25 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
X Leachate
X Parameters

Observations

Weather/Temperature: Mostly cloudy, 75-80 F, 82% humidity

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/7/2021

WELL ID: CW2-M Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 116.40'
Initial static water level (feet from top of casing) 79.60
Approximate Pump Inlet (feet from top of casing).....

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 36.8 ft. of water x 0.65 = 24 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____ 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	7.68	15.91	0.348	10.5	3.60	37	0.2
20	6.88	15.22	0.324	9	0.66	99	0.1
40	6.74	14.86	0.253	3.9	0.46	82	0.1
60	6.62	14.69	0.205	1.3	0.38	67	0.1
80	6.60	14.62	0.195	0.9	0.37	58	0.1
100	6.58	14.45	0.188	0	0.33	48	0.1
120	6.57	14.46	0.183	0	0.35	47	0.1

Purging Rate: 4 GPM Purging Time: 30 min Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling

Time of Sample Collection: 5:10 p.m.

Method: _____ Analyses (Pace Analytical Laboratory)
_____ Submersible Pump X VOCs
_____ In-Line Filter (Diss. Metals) _____
_____ Pos. Disp. Pump X Metals
X Disposable bailer _____ Leachate
_____ _____ Parameters
_____ Dedicated pump _____

Observations

Weather/Temperature: Partly cloudy 75-80 F, wind 0-5 mph

Sample description: Clear- slightly cloudy

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/8/2021

WELL ID: CW4-M Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 147.65'
Initial static water level (feet from top of casing) 94.54'
Approximate Pump Inlet (feet from top of casing).....

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 53.11 ft. of water x 0.65 = 34.5 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____ 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	9.20	16.99	0.253	32	7.04	-5	0.1
30	7.03	14.42	0.250	13	6.83	90	0.1
60	6.99	14.53	0.248	9.8	6.81	84	0.1
90	6.96	14.48	0.243	6.3	6.79	88	0.1
120	6.96	14.45	0.241	4.7	6.53	97	0.1
135	6.83	14.46	0.241	3.7	6.43	112	0.1
150	6.80	14.51	0.240	2.8	6.02	118	0.1
165	6.79	14.51	0.240	2.8	5.85	120	0.1

Purging Rate: 3 GPM Purging Time: 55 min Sampling Rate: NA
Well headspace PID =0.0 ppm

Sampling

Time of Sample Collection: 1:45 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
X Leachate
X Parameters

Observations

Weather/Temperature: Mostly cloudy, 75-80 F, humid

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/8/2021

WELL ID: CW4-S Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 116.65'
Initial static water level (feet from top of casing) 94.40'
Approximate Pump Inlet (feet from top of casing)..... _____

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 22.3 ft. of water x 0.65 = 14.5 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____ gal. >3 volumes: yes _____ no X 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	7.08	16.12	0.216	415	4.68	90	0.1
5	7.11	15.99	0.205	159	1.25	103	0.1
10	6.97	16.29	0.199	109	1.22	111	0.1
15	6.94	17.05	0.228	18.5	1.75	112	0.1
20	6.89	17.20	0.229	18.2	1.56	112	0.1
25	6.91	17.06	0.231	8	2.30	112	0.1
35	6.85	17.32	0.230	6	1.81	114	0.1
40	6.85	17.34	0.230	5	1.80	113	0.1
45	6.89	17.35	0.230	6	1.77	115	0.1

Purging Rate: 1 GPM Purging Time: 45 min Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling

Time of Sample Collection: 3:40 p.m. Note; water table drawing down to bottom of well: kept gpm @ 1 gpm or less

Method: _____ Analyses (Pace Analytical Laboratory)
_____ Submersible Pump X VOCs
_____ In-Line Filter (Diss. Metals) _____
_____ Pos. Disp. Pump X Metals
X Disposable bailer _____ Leachate
_____ _____ X Parameters
_____ Dedicated pump _____

Observations

Weather/Temperature: Mostly cloudy, 75-80 F, humid
Sample description: Slightly cloudy -clear
Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/12/2021

WELL ID: EN1-M Time On-site: _____ Time Off-site: _____

SAMPLERS: KR/MF

Depth of well (feet from top of casing) 175.50'

Initial static water level (feet from top of casing) 64.72

Approximate Pump Inlet (feet from top of casing).....

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons

4 in. casing: 110.78 ft. of water x 0.65 = 72 gallons

6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____

24 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 (%)
4	6.56	15.44	0.291	65.3	5.66	84	0.1
5.5	6.55	15.47	0.293	57	6.69	85	0.1
7	6.56	15.42	0.292	50.8	5.57	86	0.1
8.5	6.56	15.25	0.291	51.7	5.86	88	0.1
10	6.56	15.03	0.291	52.3	5.75	89	0.1
11.5	6.59	15.08	0.292	60.6	5.97	89	0.1
13	6.58	15.34	0.291	56	5.61	91	0.1
14.5	6.52	15.44	0.290	56	5.76	92	0.1
16	6.60	15.20	0.288	48	5.58	92	0.1
17.5	6.58	15.31	0.289	41.4	5.60	94	0.1
19	6.58	15.34	0.289	39.8	5.60	94	0.1
20.5	6.59	15.26	0.288	37.9	5.61	95	0.1

Purging Rate:

300 ml/m

Purging Time:

83 min

Sampling Rate:300 ml/m

Well head space PID = 0.0 ppm

Sampling

Time of Sample Collection: 3:10 p.m. Collected Blind Duplicate at well EN1-M

Method:

_____ Submersible Pump
_____ In-Line Filter (Diss. Metals)
_____ Pos. Disp. Pump
_____ Disposable bailer
X Low flow bladder pump

Analyses (Pace Analytical Laboratory)

X VOCs
X Metals
X Leachate Parameters

Observations

Weather/Temperature: Sunny, humid

Sample description: Clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/7/2021

WELL ID: EN6-M Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 173.60'
Initial static water level (feet from top of casing) 95.92'
Approximate Pump Inlet (feet from top of casing)..... _____

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 77.68 ft. of water x 0.65 = 50 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____ 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	5.87	13.97	0.365	3.2	9.27	250	0.2
30	5.87	12.93	0.406	4.7	2.63	225	0.2
60	5.96	12.90	0.410	0.5	2.81	203	0.2
90	6.01	12.89	0.409	0	2.77	197	0.2
120	6.10	12.96	0.409	0	2.88	187	0.2
150	6.14	12.90	0.419	0	2.89	187	0.2

Purging Rate: 3 GPM Purging Time: 50 min Sampling Rate: NA
well headspace PID = 0.0 ppm

Sampling

Time of Sample Collection: 10:55 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
X Leachate
X Parameters

Observations

Weather/Temperature: Partly cloudy 75-80 F, Wind 0-5 mph

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/7/2021

WELL ID: EN6-S Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 113.40'
Initial static water level (feet from top of casing) 96.95
Approximate Pump Inlet (feet from top of casing).....

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 16.45 ft. of water x 0.65 = 10.7 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____ 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	7.06	14.11	0.153	30.2	9.07	155	0.1
10	5.91	14.34	0.279	11.6	7.47	177	0.1
20	5.81	14.14	0.289	5.4	7.79	183	0.1
30	5.78	13.69	0.296	0	8.07	192	0.1
40	5.77	13.58	0.296	0	7.98	195	0.1
50	5.76	13.57	0.297	0	8.08	199	0.1

Purging Rate: 2 GPM Purging Time: 25 min Sampling Rate: NA
Well head space PID = 0.0 ppm

Sampling

Time of Sample Collection: 12:40 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
X Leachate
X Parameters

Observations

Weather/Temperature: _____
Sample description: clear
Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/12/2021

WELL ID: EN7-M Time On-site: _____ Time Off-site: _____

SAMPLERS:

Depth of well (feet from top of casing) 224.00'
Initial static water level (feet from top of casing) 25.59'
Approximate Pump Inlet (feet from top of casing)..... _____

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 198.41 ft. of water x 0.65 = 128.9 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:
39.2 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 (%)
3.97	6.76	18.82	0.331	12.6	0.77	-19	0.2
5.92	6.84	18.34	0.377	83.7	0.48	-29	0.2
7.87	6.87	18.09	0.396	68	0.45	-32	0.2
9.97	6.85	15.10	0.558	135	0.44	-36	0.3
11.92	6.83	14.68	0.596	153	0.41	-38	0.3
13.87	6.87	14.70	0.617	138	0.39	-40	0.3
15.82	6.86	14.97	0.619	136	0.39	-40	0.3
17.77	7.03	14.32	0.905	109	0.50	-49	0.4
19.72	7.04	14.17	0.909	106	0.43	-49	0.4
21.67	7.05	14.18	0.911	103	0.42	-50	0.4
23.62	7.08	14.15	0.920	88	0.36	-52	0.5
25.57	7.09	14.16	0.924	85	0.35	-54	0.5
27.52	7.08	14.15	0.929	75	0.34	-54	0.5
29.47	7.10	14.22	0.936	65	0.33	-56	0.5
31.42	7.08	14.92	0.941	65	0.34	-56	0.5
33.37	7.12	13.99	0.958	48	0.32	-59	0.5
35.32	7.11	13.99	0.963	48	0.31	-59	0.5
37.27	7.14	13.96	0.979	47	0.31	-62	0.5
39.22	7.15	13.95	0.985	44	0.31	-62	0.5

Sampling

Time of Sample Collection: 11:00 a.m. purging rate = 390/m
sampling rate= 390 ml/m, Purge time =100 min

Method:

Analyses (Pace Analytical Laboratory)
____ Submersible Pump X VOCs
____ In-Line Filter (Diss. Metals)
____ Pos. Disp. Pump X Metals
____ Disposable bailer X Leachate
____ X Low flow bladder pump X Parameters

Well headspace PID = 0.0 ppm

Collected MS/MSD at well EN7-M

Observations

Weather/Temperature: Sunny, humid

Sample description: Clear-slightly cloudy

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/7/21

WELL ID: EN9-M Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

Depth of well (feet from top of casing) 135.50'
Initial static water level (feet from top of casing) 27.15
Approximate Pump Inlet (feet from top of casing).....

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 106.35 ft. of water x 0.65 = 69 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: _____ 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	8.75	17.01	0.319	2.2	5.98	-2	0.2
50	6.99	12.05	0.530	42.2	4.79	-49	0.3
75	6.78	11.77	0.575	5.5	5.69	34	0.3
100	6.71	11.77	0.577	4.3	5.61	59	0.3
125	6.70	11.78	0.578	3.7	5.64	71	0.3
150	6.67	11.76	0.579	3	5.64	80	0.3
175	6.65	11.72	0.581	2.7	5.65	98	0.3
200	6.64	11.77	0.582	1.9	5.65	100	0.3
250	6.59	11.69	0.584	2	5.64	103	0.3

Purging Rate: 5 GPM Purging Time: 50 min Sampling Rate: NA
Well headspace PID = 0.0 ppm

Sampling

Time of Sample Collection: 3:15 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
X Leachate
X Parameters

Observations

Weather/Temperature: Partly cloudy 75-80 F, wind 0-5 mph

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 7/13/2021

WELL ID: EN10-M Time On-site: _____ Time Off-site: _____

SAMPLERS: KR

Depth of well (feet from top of casing) 440.00'

Initial static water level (feet from top of casing) Estimated at 232'

Approximate Pump Inlet (feet from top of casing).....

Purging Method

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

Well Volume Calculation:

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
4 in. casing: 208 ft. of water x 0.65 = 135 gallons
6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed:

420 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	16.70	0.015	82	5.76	36	0.0
30	5.92	15.71	0.024	71	3.03	140	0.0
60	6.08	15.29	0.093	64	3.22	145	0.0
90	6.24	15.16	0.201	6	--	161	0.1
120	6.27	15.16	0.202	1.6	6.67	166	0.1
150	6.29	15.18	0.201	0	6.85	171	0.1
180	6.31	15.25	0.189	2.8	7.12	174	0.1
210	6.30	15.12	0.198	0	7.12	176	0.1
240	6.31	15.09	0.199	0	7.33	182	0.1
270	6.32	15.06	0.200	0	6.88	186	0.1
300	6.31	15.07	0.200	0	6.65	189	0.1
330	6.36	15.00	0.200	0	7.38	190	0.1
360	6.32	15.00	0.199	0	7.32	193	0.1
390	6.31	15.03	0.199	0	7.34	197	0.1
420	6.31	14.96	0.199	0	7.44	198	0.1

Purging Rate:

1 GPM

Purging Time:

420 min

Sampling Rate: NA

Well headspace PID = 0.0 ppm

Sampling

Time of Sample Collection: 5:30 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
X _____ Leachate
X _____ Parameters

Observations

Weather/Temperature: Overcast, warm 70-80F

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-1 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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	6.03	16.61	0.290	220	2.95	159	0.1

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

Sampling

Time of Sample Collection: 11:35 a.m.

Method:

_____ Submersible Pump
_____ In-Line Filter (Diss. Metals)
_____ Pos. Disp. Pump
_____ Disposable bailer
_____ Hand Dipper

Analyses (Pace Analytical Laboratory)

X VOCs
_____ Leachate
X Parameters

Observations

Weather/Temperature: Sunny, 75-85 F, Pressure 29.92 hg, Wind NW 0-5 mph

Sample description: Slightly cloudy, trace algae

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-2 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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	7.03	18.80	2.77	71.6	7.22	101	1.4

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

Sampling

Time of Sample Collection: 9:00 a.m.

Method: _____ Analyses (Pace Analytical Laboratory)
_____ Submersible Pump X VOCs
_____ In-Line Filter (Diss. Metals) _____
_____ Pos. Disp. Pump _____
_____ Disposable bailer _____ Leachate
_____ X Hand Dipper _____ Parameters

Observations

Weather/Temperature: Sunny 75-85 F, Pressure 29.92 hg, Wind NW 0-5 mph

Sample description: Gray-Brown slightly turbid

Free Product? yes _____ no X describe _____
Sheen? yes X no _____ describe Possible iron
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-3 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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	7.03	19.58	13.5	24.6	5.84	94	7.8

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

Sampling

Time of Sample Collection: 9:35 a.m.

Method:

_____ Submersible Pump
_____ In-Line Filter (Diss. Metals)
_____ Pos. Disp. Pump
_____ Disposable bailer

Analyses (Pace Analytical Laboratory)

X VOCs

_____ Leachate
X Parameter
_____ s

X Hand Dipper

Observations

Weather/Temperature: Sunny 75-85 F, Pressure 29.92 hg, Wind NW 0-5 mph

Sample description: Clear

Free Product? yes _____ no X describe _____
Sheen? yes X no _____ describe Possible iron
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-4 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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	6.43	15.39	0.304	0	6.37	107	0.1

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

Sampling

Time of Sample Collection: 11:10 a.m.

Method: _____ Analyses (Pace Analytical Laboratory)
_____ Submersible Pump X VOCs
_____ In-Line Filter (Diss. Metals) _____
_____ Pos. Disp. Pump _____
_____ Disposable bailer _____ Leachate
_____ X Parameters
X Hand Dipper

Observations

Weather/Temperature: Sunny 75-85 F, Pressure 29.92 hg, Wind NW 0-5 mph
Sample description: clear
Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-5 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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	6.63	19.68	20.9	33.3	2.91	102	12.4

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

Sampling

Time of Sample Collection: 10:30 a.m.

Method: _____ Analyses (Pace Analytical Laboratory)
_____ Submersible Pump X VOCs
_____ In-Line Filter (Diss. Metals) _____
_____ Pos. Disp. Pump _____
_____ Disposable bailer _____ Leachate
_____ X Hand Dipper _____ Parameters

Observations

Weather/Temperature: Sunny 75-85 F, Pressure 29.92 hg, Wind NW 0-5 mph

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-6 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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: _____ 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	7.53	27.66	0.371	12.9	7.04	25	0.2

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

Sampling

Time of Sample Collection: 12:30 p.m.

Method:

_____ Submersible Pump
_____ In-Line Filter (Diss. Metals)
_____ Pos. Disp. Pump
_____ Disposable bailer
_____ Hand Dipper

Analyses (Pace Analytical Laboratory)

X VOCs
_____ Leachate
X Parameters

Observations

Weather/Temperature: Sunny 75-85 F, Pressure 29.92 hg, Wind NW 0-5 mph

Sample description: Clear to slightly cloudy

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____

**EAST NORTHPORT LANDFILL SAMPLING
FIELD OBSERVATION LOG
SURFACE WATER SAMPLING RECORD**

SITE East Northport Landfill DATE 7/20/2021

WELL ID: SW-7 Time On-site: _____ Time Off-site: _____
SAMPLERS: KR/MF _____

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 _____ Disposable _____
Pump _____ 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	7.51	26.84	26.0	28.7	9.37	100	15.7

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

Sampling

Time of Sample Collection: 1:45 p.m.

Method:

_____ Submersible Pump
_____ In-Line Filter (Diss. Metals)
_____ Pos. Disp. Pump
_____ Disposable bailer
_____ Hand Dipper

Analyses (Pace Analytical Laboratory)

X VOCs
_____ Leachate
X Parameters

Observations

Weather/Temperature: Sunny 75-85 F, Pressure 29.92 hg, wind NW 0-5 mph

Sample description: clear

Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes X no _____ describe Low tide odor

APPENDIX F

CHAIN OF CUSTODY FORMS



CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEAD

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace T

WO#: 70179696



70179696

aly.
rd-terms.pdf.

Section A

Required Client Information:

Company: Dvirka & Bartilucci
Address: 330 Crossways Park Drive
Woodbury, NY 11797
Email: krobins@db-eng.com
Phone: (516)578-5546 Fax:
Requested Due Date: 5/24/21 (10 days)

Section B

Required Project Information:

Report To: Keith Robins
Copy To:
Purchase Order #:
Project Name: East Northport SA Groundwaters
Project #:

Section C

Invoice Information:

Attention: Keith Robins
Company Name: DVB Engineers and Architects
Address: 330 Crossways Park Drive
Pace Quote:
Pace Project Manager: betty.harrison@pacelabs.com
Pace Profile #: 5278

Page: 1 Of 1

Regulatory Agency

State / Location

NY

Requested Due Date: 8/10/2021		Project #: 3278																																	
ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)	
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Volatile Organics 624	Metals & Hardness	ALK, BICARB ALK, TDS, NO2	NH3, NO3	ALUMINUM, ARSENIC	CHROMIUM, COPPER, IRON, LEAD	MANGANESE, MERCURY, NICKEL, SILVER, ZINC	PHOSPHORUS, POTASSIUM, SULFATE	SILICON, SODIUM	TDS	Hardness, SULFATE						
				DATE	TIME	DATE	TIME																												
1	Trip Blank - 7/7/2021	AA	-	7/7/21	-	7/7/21	-	2	2																									001	
2	EN6-M-7/7/2021	WT	G	7/7/21	1055 AM	7/7/21	-	5	2																									002	
3	EN6-S-7/7/2021	WT	G	7/7/21	1240 PM	7/7/21	-	5	3																									003	
4	EN9-M-7/7/2021	WT	G	7/7/21	315 PM	7/7/21	-	5	3																									004	
5	CW2-M-7/7/2021	WT	G	7/7/21	516 PM	7/7/21	-	5	2																									005	
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Metals = Al, As, Cr, Cd, Fe, Pb, Mg, Hg, K, & Na + Hardness	Keith Robins / DVB	7/8/21	8:15	Keith Robins / DVB	7/8/21	8:15				
Provide Certificates of Analysis and Chain of Custody	Keith Robins / DVB	7/8/21	8:00	Keith Robins / DVB	7/8/21	8:17	4.1	Y	N	Y
Send data to Labdata@db-eng.com										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

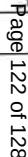
Received on

Ice (Y/N)

Custody Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)



CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70179696

Order Number or

PM: EMH

Due Date: 07/19/21

CLIENT: D&B

ONLY

EMH

Company: D+B Engineers and Architects		Billing Information: D+B Engineers and Architects	
Address: 330 Crossways Park Drive		330 Crossways Park Drive	
Report To: Keith Robins		Email To: KRobins@db-eng.com	
Copy To: —		Site Collection Info Address: East Northport Landfill	
Customer Project Name/Number: Landfill East Northport (5629)		State: NY County/City: Time Zone Collected: [] PT [] MT [] CT [X] ET	
Phone: 516-364-9890	Site/Facility ID #: —	Compliance Monitoring? [X] Yes [] No	
Email: KRobins@db-eng.com	Purchase Order #: Profile # 5278	DW PWS ID #: —	
Collected By (print): Keith Robins	Quote #: —	DW Location Code: —	
Collected By (signature): Keith Robins	Turnaround Date Required: (Standard 10 day)	Immediately Packed on Ice: [X] Yes [] No	
Sample Disposal: [X] Dispose as appropriate [] Return	Rush: (Standard 10 day)	Field Filtered (if applicable): [] Yes [X] No	
[] Archive: —	[] 2 Day [] 3 Day [] 4 Day [] 5 Day	Analysis: —	
[] Hold: —			

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
Trip Blank-7/12/21	GW	—	7/12/21	—	—	—	—	2
EN 7-M-7/12/21	GW	Grab	7/12/21	11:00am	7/12/21	—	N	5
EN 7-M-7/12/21 (MS)	GW	Grab	7/12/21	11:00am	7/12/21	—	N	5
EN 7-M-7/12/21 (MSD)	GW	Grab	7/12/21	11:00am	7/12/21	—	N	5
EN 1-M-7/12/21	GW	Grab	7/12/21	3:10pm	7/12/21	—	N	5
Blank Duplicate-7/12/21	GW	Grab	7/12/21	0000	7/12/21	—	N	5

Container Preservation: —									
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other									
Analyses									
Lab Profile/Line:									
Lab Sample Receipt Checklist:									
Custody Seals Present/Intact Y ☒ N ☐ NA ☐									
Custody Signatures Present Y ☒ N ☐ NA ☐									
Collector Signature Present Y ☒ N ☐ NA ☐									
Bottles Intact Y ☒ N ☐ NA ☐									
Correct Bottles Y ☒ N ☐ NA ☐									
Sufficient Volume Y ☒ N ☐ NA ☐									
Samples Received on Ice Y ☒ N ☐ NA ☐									
VOA - Headspace Acceptable Y ☒ N ☐ NA ☐									
USDA Regulated Soils Y ☒ N ☐ NA ☐									
Samples in Holding Time Y ☒ N ☐ NA ☐									
Residual Chlorine Present Y ☒ N ☐ NA ☐									
Cl Strips: —									
Sample pH Acceptable Y ☒ N ☐ NA ☐									
pH Strips: —									
Sulfide Present Y ☒ N ☐ NA ☐									
Lead Acetate Strips: —									
LAB USE ONLY:									
Lab Sample # / Comments:									

Customer Remarks / Special Conditions / Possible Hazards: Provide Category "B" and EQUIS deliverables - send data to: Labdata@db-eng.com		Type of Ice Used: Wet Blue Dry None		SHORT HOLDS PRESENT (<72 hours): Y ☒ N ☐ N/A		Lab Sample Temperature Info:	
Packing Material Used: —		Lab Tracking #: 2412245		Temp Blank Received: Y ☒ N ☐ NA ☐		Therm ID#: TH091	
Radchem sample(s) screened (<500 cpm): Y ☐ N ☐ NA ☒		Samples received via: FEDEX UPS Client Courier Pace Courier		Cooler 1 Temp Upon Receipt: 1.7 °C		Cooler 1 Therm Corr. Factor: 1.7 °C	
Relinquished by/Company: (Signature) Keith Robins / D+B		Date/Time: 7/13/21 9:37		Received by/Company: (Signature) Noranne Saager		Cooler 1 Corrected Temp: 1.7 °C	
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Comments:	
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Trip Blank Received: Y ☐ N ☐ NA ☐	
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		HCL MeOH TSP Other	
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Non Conformance(s): YES / NO	
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Page: of:	

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70179696

Trace Workorder Number or

PM: EMH

Due Date: 07/19/21

CLIENT: D&B

USE ONLY

Manager:

EMH

Company: D&B Engineers and Architects		Billing Information: D&B Engineers and Architects	
Address: 330 Crossways Park Drive		330 Crossways Park Drive	
Report To: Keith Robins		Email To: KRobins@d-b-eng.com	
Copy To:		Site Collection Info/Address: East Northport Landfill	
Customer Project Name/Number: East Northport Landfill (5629)		State: NY County/City: Suffolk Time Zone Collected: [] PT [] MT [] CT [X] ET	
Phone: 516 364-9890	Site/Facility ID#:	Compliance Monitoring?	
Email: KRobins@d-b-eng.com		[X] Yes [] No	
Collected By (print): Keith Robins	Purchase Order #: PO# 5278	DW PWS ID #:	
Collected By (Signature): Keith Robins	Quote #:	DW Location Code:	
Sample Disposal:	Turnaround Date Required: Standard 10 day	Immediately Packed on Ice:	
[X] Dispose as appropriate [] Return		[X] Yes [] No	
Archive:	Rush: [] Same Day [] Next Day	Field Filtered (if applicable):	
[] Hold:	[] 2 Day [] 3 Day [] 4 Day [] 5 Day	[] Yes [X] No	
(Expedite Charges Apply)			

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
ENID-M-7/13/21	GW	G	7/13/21	5:30 PM	7/13/21		NO	5
Field BLK			7/13/21					
TRIP BLK			7/13/21					

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses					Lab Profile/Line:	
VOCs (624 method)					Lab Sample Receipt Checklist:	
2 metals and hardness					Custody Seals Present/Intact	
ALK, BICARB, AIC, TDS, NO ₂					Custody Signatures Present	
NH ₃ , NO ₃ , Cadmium, Arsenic, Chromium					Collector Signature Present	
Cadmium, Calcium, Iron, Lead					Bottles Intact	
Magnesium, Manganese, Polonium, Selenium					Correct Bottles	
Chloride, Sulfate, Ammonium, Nitrate					Sufficient Volume	
					Samples Received on Ice	
					VOA - Headspace Acceptable	
					USDA Regulated Soils	
					Samples in Holding Time	
					Residual Chlorine Present	
					Cl Strips:	
					Sample pH Acceptable	
					pH Strips:	
					Sulfide Present	
					Lead Acetate Strips:	
					LAB USE ONLY:	
					Lab Sample # / Comments:	

Customer Remarks / Special Conditions / Possible Hazards: Provide Catalog B and E Quik delivery to Lab data @ d-b-eng.com

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

BD

Lab Tracking #:

2412246

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:

FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature)

Date/Time:

7/14/21 9:42

Received by/Company: (Signature)

Date/Time:

7/14/21 9:42

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: TH091

Cooler 1 Temp Upon Receipt: 0.6 °C

Cooler 1 Therm Corr. Factor: 0.0 °C

Cooler 1 Corrected Temp: 0.6 °C

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s):

Page: 1

YES / NO

of: 1

W0#: 70179696

PM: EMH

Due Date: 07/23/21

CLIENT: D&B



CHAIN-OF-CUSTODY / Analysis

The Chain-of-Custody is a LEGAL DOCUMENT

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions

Section A

Required Client Information:

Company: Dvirka & Bartilucci
Address: 330 Crossways Park Drive
Woodbury, NY 11797
Email: krobins@db-eng.com
Phone: (516) 578-5546 Fax:
Requested Due Date: 5/1/2021

Section B

Required Project Information:

Report To: Keith Robins
Copy To:
Purchase Order #:
Project Name: East Northport Surface Waters
Project #: (H5629)

Section C

Invoice Information:

Attention: Keith Robins
Company Name: D&B Engineers and Architects PC
Address: 330 Crossways Park Drive
Pace Quote:
Pace Project Manager: betty.harrison@pacelabs.com
Pace Profile #: 5278

Page: 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	TCL VOCs EPA (624) Leakage indicators alkalinity/bicarbonate, ammonia, nitrate, chloride, TDS, Hardness, sulfate																																																																																																																																																																																																																																																																																																																																																																																																															
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses Test	Volatile Organics 624	ALK,BICARB ALK,TDS,NO2	NH3,NO3	NH4,NO2	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3			NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	NH4,NO3	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
Metals = Al, As, Cr, Cd, Fe, Pb, Mg, Hg, K, & Na + Hordness		Keith Robins / D&B		7/20/21	3:45 pm	Keith Robins / D&B		7/20/21	15:48	0.3	W	N	✓
Prim de cartagony B' and													
Equis delincales													
Test data to Lab data @ db-eng.com													

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:							
SIGNATURE of SAMPLER:		DATE Signed:					
Keith Robins		7/20/2024					

Job Completed

APPENDIX G

DATA VALIDATION FORMS

DATA VALIDATION CHECKLIST

Project Name:	East Northport SA Landfill
Project Number:	5629
Sample Date(s):	July 7 to 20, 2021
Sample Team:	Keith Robins
Matrix/Number of Samples:	<u>Ground Water (GW)/ 11</u> <u>Surface Water (SW)/ 7</u> <u>Field Duplicates/ 1</u> <u>Trip Blanks / 5</u> <u>Field Blanks/ 1</u>
Analyzing Laboratory:	Pace Analytical., Melville, NY
Analyses:	<u>Volatile Organic Compounds (VOCs):</u> by USEPA 624.1 <u>Metals:</u> by USEPA 200.7 (GW), SW846 6010C (SW), mercury (GW) by USEPA 245.1 <u>General Chemistry:</u> Alkalinity (SM22 2320B); Ammonia (SM22 4500); Chloride and Sulfate (USEPA 300.0); Nitrate and Nitrite (USEPA 353.2); Nitrite (USEPA 353.2); Total Dissolved Solids (SM22 2540C); and Hardness (SM22 2340B)
Laboratory Report No:	70179696
	Date:8/5/2021

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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:

The data packages have been reviewed in accordance with the NYSDEC 6/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. 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, or USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and 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.

Pages

SDG: 70179696
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Blind Sample	Analysis			
				VOC	SVOC	MET	MISC
TRIP BLANK	70179696001	7/7/2021		X			
EN6_M	70179696002	7/7/2021		X		X	X
EN6_S	70179696003	7/7/2021		X		X	X
EN9_M	70179696004	7/7/2021		X		X	X
CW2_M	70179696005	7/7/2021		X		X	X
TRIP BLANK	70179696007	7/8/2021		X			
CW-1S	70179696008	7/8/2021		X		X	X
CW-1M	70179696009	7/8/2021		X		X	X
CW-4M	70179696010	7/8/2021		X		X	X
CW-4S	70179696011	7/8/2021		X		X	X
TRIP BLANK	70179696012	7/12/2021		X			
EN7-M	70179696013	7/12/2021		X		X	X
EN1-M	70179696014	7/12/2021		X		X	X
BLIND DUPLICATE	70179696015	7/12/2021	EN1-M	X		X	X
EN10-M	70179696016	7/13/2021		X		X	X
FIELD BLANK	70179696017	7/13/2021		X		X	X
TRIP BLANK	70179696018	7/13/2021		X			
TRIP BLANK	70179696019	7/20/2021		X			
SW-1	70179696020	7/20/2021		X		X	X
SW-2	70179696021	7/20/2021		X		X	X
SW-3	70179696022	7/20/2021		X		X	X
SW-4	70179696023	7/20/2021		X		X	X
SW-5	70179696024	7/20/2021		X		X	X
SW-6	70179696025	7/20/2021		X		X	X
SW-7	70179696026	7/20/2021		X		X	X

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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) spike %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	
14. Tentatively Identified Compounds (TICs)		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 exceptions:

- 2C. Methylene chloride was detected in the field blank. It was not detected in the samples therefore qualification of the data was not necessary.
- 3-4. The %Rs were above the QC limits in the MS and/or MSD for tetrachloroethene associated with samples TRIP BLANK, EN6_M, EN6_S, EN9_M, CW2_M, TRIP BLANK 7/8/2021, CW-1S, CW-1M, CW-4M, CW-4S, TRIP BLANK 7/20/2021, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, and SW-7. It was not detected in the samples; therefore, qualification of the data was not necessary.

The %R was below the QC limit in the MS and MSD for 2-chloroethylvinyl ether associated with samples TRIP BLANK 7/7/2021, EN6_M, EN6_S, EN9_M, CW2_M, TRIP BLANK 7/8/2021, CW-1S, CW-1M, CW-4M, and CW-4S. 2-Chloroethylvinyl ether was qualified as an estimated (UJ) in the associated samples.

The %R was below the QC limits in the MSD for 1,2-dichloroethane associated with samples TRIP BLANK 7/20/2021, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, and SW-7. 1,2-Dichloroethane was qualified as an estimated (UJ) in associated samples.

**INORGANIC ANALYSES
METALS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method 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 duplicates RPD		X		X	

%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.

- 2A. Cadmium, calcium, and potassium were detected in the initial calibration blank. It was not qualified based on sample concentrations.
11. The %D was above QC limit in the serial dilution for iron associated with sample EN6_M. Iron was qualified as estimated (J) in sample EN6_M.

**INORGANIC ANALYSES
GENERAL CHEMISTRY**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Laboratory 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. Laboratory control sample %R		X	X		
7. Spike sample %R		X	X		
8. Duplicate RPD		X		X	
9. Field duplicates RPD		X		X	

%R percent recovery

RPD - relative percent difference

%D – percent difference

RSD - relative standard deviation

Comments:

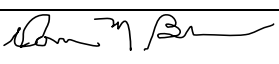
Performance was acceptable, with the following exception:

- 2A. Ammonia detected in the initial calibration blank. Ammonia was qualified as non-detect (UB) in samples EN_6S, EN-10M, CW-2M, SW-1, SW-2, SW-4, SW-5, SW-6, and SW-7.
6. The %R was below the QC limit in the LCS for alkalinity, carbonate (CaCO₃) associated with samples EN6_M, EN6_S, EN9_M, CW2_M, CW-1M, CW-4M, CW-4S, EN7-M, EN1-M, BLIND DUPLICATE, EN10-M, and FIELD BLANK and were qualified as estimated (UJ).
7. The %R was below the QC limit in the MS for alkalinity, carbonate (CaCO₃) associated with all samples except CW-1S; and nitrate associated with all GW samples except CW-1S. They were qualified as estimated (UJ/J) in associated samples.

The %R was above the QC limit in the MS for nitrate associated with all SW samples. Nitrate was detected above the reporting limit in all SW samples, except SW-6 and were qualified as estimated (J).

**DATA VALIDATION AND
QUALIFICATION SUMMARY**
Laboratory Numbers:70179696

Sample ID	Analyte(s)	Qualifier	Reason(s)
<u>VOCs</u>			
TRIP BLANK 7/7/2021, EN6_M, EN6_S, EN9_M, CW2_M, TRIP BLANK 7/8/2021, CW-1S, CW-1M, CW-4M, and CW-4S	2-Chloroethylvinyl ether	UJ	The %R was below the QC limit in the MS and MSD
TRIP BLANK 7/20/2021, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, and SW-7	1,2-Dichloroethane		
<u>Metals</u>			
EN6_M	Iron	J	The %D was above QC limit in the serial dilution
<u>General Chemistry</u>			
EN_6S, EN-10M, CW-2M, SW-1, SW-2, SW-4, SW-5, SW-6, and SW-7	Ammonia	UB	Detected in the initial calibration blank
EN6_M, EN6_S, EN9_M, CW2_M, CW-1M, CW-4M, CW-4S, EN7-M, EN1-M, BLIND DUPLICATE, EN10-M, and FIELD BLANK	Alkalinity,carbonate (CaCO3)	UJ	The %R was below the QC limit in the LCS
All samples except CW-1S	Alkalinity,carbonate (CaCO3)	UJ/J	The %R was below the QC limit in the MS
All GW samples except CW-1S	Nitrate		
All SW samples, except SW-6	Nitrate	J	The %R was above the QC limit in the MS

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 9/9/2021
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECKLIST

Project Name:	East Northport SA Landfill	
Project Number:	5629	
Sample Date(s):	July 12&13, 2021	
Sample Team:	Keith Robins	
Matrix/Number of Samples:	<u>Water/ 3</u> <u>Field Duplicate/ 1</u> <u>Trip Blank/ 0</u> <u>Field Blank/ 1</u>	
Analyzing Laboratory:	Pace Northeast, Longmeadow, MA, Eurofins TestAmerica, Amherst, NY	
Analyses:	<u>Per-and Polyfluoroalkyl Substances (PFAS):</u> by SOP-454 at MA <u>1,4-Dioxane:</u> by method 8270D Sim at NY	
Laboratory Report No:	70180205	Date:09/24/2021

ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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:

The data packages have been reviewed in accordance with the NYSDEC 6/05 ASP Quality Assurance/ Quality Control (QA/QC) requirements. 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 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.

**Custody Numbers:70180205
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis			
				VOC	1,4-Dioxane	PFAS	MISC
EN-1M	480-187180-1	7/12/2021			X		
EN-7M	480-187180-2	7/12/2021			X		
BLIND DUPLICATE	480-187180-3	7/12/2021	EN-1M		X		
EN-10M	480-187345-1	7/13/2021			X		
FIELD BLANK	480-187345-2	7/13/2021			X		
EN-10M	21G0960-01	7/13/2021				X	
FIELD BLANK	21G0960-02	7/13/2021				X	
EN-1M	21G0641-01	7/12/2021				X	
EN-7M	21G0641-02	7/12/2021				X	
BLIND DUPLICATE	21G0641-03	7/12/2021	EN-1M			X	

ORGANIC ANALYSES

PFAS & 1,4-Dioxane

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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		X	
4. Matrix spike duplicate (MSD) %R		X		X	
5. MS/MSD precision (RPD)		X		X	
6. Laboratory control sample (LCS) %R and 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 Blind Duplicate		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, with the following exception:

- 1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) was detected in the FIELD BLANK. No qualification of the data was necessary.
- Four surrogates were below the QC limits in sample EN-10M. The following compounds were qualified as an estimated detection limit (UJ) in sample EN-10M: perfluorooctane sulfonamide (FOSA), perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), 1H,1H,2H,2H-perfluorodecane sulfonate (8:2), and perfluorodecanoic acid (PFDA).

Six surrogates were above the QC limits and two were below QC limits in samples EN-7M. The following compounds were qualified as estimated (J/UJ) in sample EN-7M: n-ethyl-n-((heptadecafluorooctyl)sulphonyl) glycine, perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), and perfluorooctane sulfonamide (FOSA).

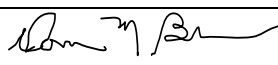
Two surrogates were below the QC limits in sample BLIND DUPLICATE. The following compounds were qualified as an estimated detection limit (UJ) in sample BLIND DUPLICATE: perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), and perfluorooctane sulfonamide (FOSA).

A surrogate was below the QC limit in sample EN-1M. Perfluorooctane sulfonamide (FOSA) was qualified as an estimated detection limit (UJ) in sample EN-1.

11. Sample EN_7M had an “E” qualifier on the 1,4-dioxane result. The actual amount is within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope. The “E” qualifier was removed from sample EN_7M 1,4-dioxane result and it was qualified as estimated (J).

**DATA VALIDATION AND
QUALIFICATION SUMMARY**
Laboratory Numbers: 70180205

Sample ID	Analyte(s)	Qualifier	Reason(s)
<u>PFA</u>			
EN-10M	Perfluorooctane sulfonamide (FOSA), perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), 1H,1H,2H,2H-perfluorodecane sulfonate (8:2), and perfluorodecanoic acid (PFDA)	UJ	Four surrogates were below the QC limits
EN-7M	N-ethyl-n-((heptadecafluorooctyl)sulphonyl)glycine, perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), and perfluorooctane sulfonamide (FOSA)	J/UJ	Six surrogates were above the QC limits and two were below QC limits
BLIND DUPLICATE	Perfluorotetradecanoic acid (PFTeA), perfluorotridecanoic acid (PFTriA), and perfluorooctane sulfonamide (FOSA)	UJ	Two surrogates were below the QC limits
EN-1M	Perfluorooctane sulfonamide (FOSA)	UJ	A surrogate was below the QC limit
<u>1,4-Dioxane</u>			
EN_7M	1,4-Dioxane	J	E flag is generated based upon the bias corrected concentration and was removed

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 9/9/21
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX H

LABORATORY DATA PACKAGES

August 19, 2021

Keith Robins
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project: EAST NORTHPORT SA GROUNDWATERS
Pace Project No.: 70179696

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between July 08, 2021 and July 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

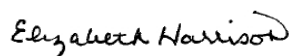
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

REVISION 1: Report re-issued on August 19, 2021 to correct sample ID on sample -016.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Donna Brown, Dvirka & Bartilucci
Marc Califano, Cashin Associates



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Date: August 19, 2021

STORAGE BLANK (Lab ID: 70179696006)

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

13 samples were analyzed for EPA 200.7 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 217378

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30429813016,30429813019

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1095572)
- Sodium

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: SM22 2340B

Description: 2340B Hardness, Total (Calc.)

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for SM22 2340B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 6010C

Description: 6010 MET ICP

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

7 samples were analyzed for EPA 6010C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 245.1

Description: 245.1 Mercury

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

13 samples were analyzed for EPA 245.1 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 624.1

Description: 624.1 Volatile Organics

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

26 samples were analyzed for EPA 624.1 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 217812

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1097905)
 - Dichlorodifluoromethane
- BLIND DUPLICATE_7/12/21 (Lab ID: 70179696015)
 - Dichlorodifluoromethane
- EN 1-M_7/12/21 (Lab ID: 70179696014)
 - Dichlorodifluoromethane
- EN 7-M_7/12/21 (Lab ID: 70179696013)
 - Dichlorodifluoromethane
- EN10-M_7/13/21 (Lab ID: 70179696016)
 - Dichlorodifluoromethane
- FIELD BLANK (Lab ID: 70179696017)
 - Dichlorodifluoromethane
- LCS (Lab ID: 1097906)
 - Dichlorodifluoromethane
- MS (Lab ID: 1097907)
 - Dichlorodifluoromethane
- MSD (Lab ID: 1097908)
 - Dichlorodifluoromethane
- TRIP BLANK (Lab ID: 70179696018)
 - Dichlorodifluoromethane
- TRIP BLANK_7/12/21 (Lab ID: 70179696012)
 - Dichlorodifluoromethane

QC Batch: 219152

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1105157)
 - Dichlorodifluoromethane
- LCS (Lab ID: 1105158)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 624.1

Description: 624.1 Volatile Organics

Client: Dvirka & Bartilucci

Date: August 19, 2021

QC Batch: 219152

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Dichlorodifluoromethane
- MS (Lab ID: 1105159)
 - Dichlorodifluoromethane
- MSD (Lab ID: 1105160)
 - Dichlorodifluoromethane
- SW-4 (Lab ID: 70179696023)
 - Dichlorodifluoromethane
- SW-5 (Lab ID: 70179696024)
 - Dichlorodifluoromethane
- SW-6 (Lab ID: 70179696025)
 - Dichlorodifluoromethane
- SW-7 (Lab ID: 70179696026)
 - Dichlorodifluoromethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 217222

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179902003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1095178)
 - 2-Chloroethylvinyl ether
 - Tetrachloroethene
- MSD (Lab ID: 1095179)
 - 2-Chloroethylvinyl ether
 - Tetrachloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 624.1

Description: 624.1 Volatile Organics

Client: Dvirka & Bartilucci

Date: August 19, 2021

QC Batch: 219136

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70181402002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1105088)
 - Tetrachloroethene
- MSD (Lab ID: 1105089)
 - 1,2-Dichloroethane

QC Batch: 219152

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70181621001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1105159)
 - Tetrachloroethene
- MSD (Lab ID: 1105160)
 - Tetrachloroethene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: SM22 2320B

Description: 2320B Alkalinity

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for SM22 2320B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 217822

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1097944)
- Alkalinity, Carbonate (CaCO₃)

QC Batch: 217996

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1098841)
- Alkalinity, Carbonate (CaCO₃)

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 217822

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179696002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1097946)
- Alkalinity, Carbonate (CaCO₃)

QC Batch: 217996

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179696013

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1098843)
- Alkalinity, Carbonate (CaCO₃)

QC Batch: 218099

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179696008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1099274)
- Alkalinity, Carbonate (CaCO₃)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: SM22 2320B

Description: 2320B Alkalinity

Client: Dvirka & Bartilucci

Date: August 19, 2021

QC Batch: 218927

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70181236003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1103649)
- Alkalinity, Carbonate (CaCO₃)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: SM22 2540C

Description: 2540C Total Dissolved Solids

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for SM22 2540C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for EPA 300.0 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 216985

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179695001,70179703001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1093515)
- Nitrate-Nitrite (as N)

QC Batch: 216986

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179783001,70179783010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1093521)
- Nitrate-Nitrite (as N)

QC Batch: 217541

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179696013,70180318001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1096637)
- Nitrate-Nitrite (as N)
- MS (Lab ID: 1096639)
- Nitrate-Nitrite (as N)

QC Batch: 217771

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70180000001,70180517001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1097804)
- Nitrate-Nitrite (as N)

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Dvirka & Bartilucci

Date: August 19, 2021

QC Batch: 218516

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70180913001,70181021001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1101835)
- Nitrate-Nitrite (as N)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 217534

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70179696013,70180223001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1096607)
- Nitrite as N

QC Batch: 217766

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70180447001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1097782)
- Nitrite as N

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Method: SM22 4500 NH3 H

Description: 4500 Ammonia Water

Client: Dvirka & Bartilucci

Date: August 19, 2021

General Information:

20 samples were analyzed for SM22 4500 NH3 H by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: TRIP BLANK_7/7/2021		Lab ID: 70179696001		Collected: 07/07/21 00:00		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics	Analytical Method: EPA 624.1								
	Pace Analytical Services - Melville								
Benzene	<1.0	ug/L	1.0	1		07/12/21 13:11	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 13:11	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 13:11	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 13:11	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 13:11	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:11	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 13:11	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 13:11	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 13:11	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 13:11	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 13:11	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:11	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:11	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:11	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 13:11	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:11	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:11	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:11	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:11	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:11	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 13:11	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 13:11	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 13:11	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 13:11	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 13:11	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 13:11	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 13:11	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 13:11	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:11	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:11	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:11	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 13:11	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 13:11	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 13:11	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102	%	69-122	1		07/12/21 13:11	460-00-4		
Toluene-d8 (S)	101	%	79-110	1		07/12/21 13:11	2037-26-5		
1,2-Dichloroethane-d4 (S)	98	%	74-119	1		07/12/21 13:11	17060-07-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN6_M_7/7/2021		Lab ID: 70179696002		Collected: 07/07/21 10:55		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	50.4J	ug/L	200	1	07/12/21 11:05	07/16/21 13:27	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/12/21 11:05	07/16/21 13:27	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/12/21 11:05	07/16/21 13:27	7440-43-9		
Calcium	26000	ug/L	200	1	07/12/21 11:05	07/16/21 13:27	7440-70-2		
Chromium	2.1J	ug/L	10.0	1	07/12/21 11:05	07/16/21 13:27	7440-47-3		
Iron	772	ug/L	100	1	07/12/21 11:05	07/16/21 13:27	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/12/21 11:05	07/16/21 13:27	7439-92-1		
Magnesium	7680	ug/L	200	1	07/12/21 11:05	07/16/21 13:27	7439-95-4		
Potassium	4550J	ug/L	5000	1	07/12/21 11:05	07/16/21 13:27	7440-09-7		
Sodium	39500	ug/L	5000	1	07/12/21 11:05	07/16/21 13:27	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	96500	ug/L	830	1		07/16/21 13:27			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:39	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 14:08	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 14:08	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 14:08	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 14:08	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 14:08	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:08	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 14:08	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 14:08	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 14:08	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 14:08	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 14:08	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:08	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:08	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:08	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 14:08	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:08	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:08	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:08	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:08	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:08	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 14:08	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 14:08	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 14:08	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 14:08	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN6_M_7/7/2021		Lab ID: 70179696002		Collected: 07/07/21 10:55		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 14:08	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 14:08	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 14:08	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 14:08	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:08	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:08	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:08	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 14:08	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 14:08	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 14:08	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	69-122	1		07/12/21 14:08	460-00-4		
Toluene-d8 (S)	97	%	79-110	1		07/12/21 14:08	2037-26-5		
1,2-Dichloroethane-d4 (S)	102	%	74-119	1		07/12/21 14:08	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	43.0	mg/L	1.0	1		07/15/21 11:12			
Alkalinity,Bicarbonate (CaCO3)	43.0	mg/L	1.0	1		07/15/21 11:12			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/15/21 11:12		L2,M0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	252	mg/L	20.0	1		07/14/21 15:57			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	78.6	mg/L	2.0	1		07/27/21 21:43	16887-00-6		
Sulfate	14.0	mg/L	5.0	1		07/27/21 21:43	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	3.5	mg/L	0.25	5		07/13/21 00:38	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:18	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.36	mg/L	0.10	1		07/27/21 17:36	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN6_S_7/7/2021		Lab ID: 70179696003		Collected: 07/07/21 12:40		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	77.2J	ug/L	200	1	07/13/21 08:45	07/16/21 11:32	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:32	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:32	7440-43-9		
Calcium	10900	ug/L	200	1	07/13/21 08:45	07/16/21 11:32	7440-70-2		
Chromium	48.8	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:32	7440-47-3		
Iron	619	ug/L	100	1	07/13/21 08:45	07/16/21 11:32	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:32	7439-92-1		
Magnesium	4410	ug/L	200	1	07/13/21 08:45	07/16/21 11:32	7439-95-4		
Potassium	2080J	ug/L	5000	1	07/13/21 08:45	07/16/21 11:32	7440-09-7		
Sodium	38200	ug/L	5000	1	07/13/21 08:45	07/16/21 11:32	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	45400	ug/L	830	1		07/16/21 11:32			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:40	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 14:28	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 14:28	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 14:28	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 14:28	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 14:28	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:28	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 14:28	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 14:28	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 14:28	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 14:28	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 14:28	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:28	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:28	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:28	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 14:28	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:28	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:28	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:28	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:28	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:28	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 14:28	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 14:28	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 14:28	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 14:28	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN6_S_7/7/2021		Lab ID: 70179696003		Collected: 07/07/21 12:40		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 14:28	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 14:28	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 14:28	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 14:28	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:28	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:28	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:28	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 14:28	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 14:28	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 14:28	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	69-122	1		07/12/21 14:28	460-00-4		
Toluene-d8 (S)	99	%	79-110	1		07/12/21 14:28	2037-26-5		
1,2-Dichloroethane-d4 (S)	97	%	74-119	1		07/12/21 14:28	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	21.0	mg/L	1.0	1		07/15/21 11:31			
Alkalinity,Bicarbonate (CaCO3)	21.0	mg/L	1.0	1		07/15/21 11:31			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/15/21 11:31		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	164	mg/L	20.0	1		07/14/21 15:59			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	57.4	mg/L	2.0	1		07/27/21 21:57	16887-00-6		
Sulfate	16.7	mg/L	5.0	1		07/27/21 21:57	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	4.2	mg/L	0.25	5		07/13/21 00:40	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:29	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.057J	mg/L	0.10	1		07/27/21 17:37	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN9_M_7/7/2021		Lab ID: 70179696004		Collected: 07/07/21 15:15		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200	1	07/13/21 08:45	07/16/21 11:34	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:34	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:34	7440-43-9		
Calcium	29500	ug/L	200	1	07/13/21 08:45	07/16/21 11:34	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:34	7440-47-3		
Iron	21.2J	ug/L	100	1	07/13/21 08:45	07/16/21 11:34	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:34	7439-92-1		
Magnesium	15200	ug/L	200	1	07/13/21 08:45	07/16/21 11:34	7439-95-4		
Potassium	2550J	ug/L	5000	1	07/13/21 08:45	07/16/21 11:34	7440-09-7		
Sodium	71600	ug/L	5000	1	07/13/21 08:45	07/16/21 11:34	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	136000	ug/L	830	1		07/16/21 11:34			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:41	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 14:47	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 14:47	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 14:47	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 14:47	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 14:47	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:47	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 14:47	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 14:47	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 14:47	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 14:47	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 14:47	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:47	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:47	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 14:47	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 14:47	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:47	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:47	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:47	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:47	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:47	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 14:47	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 14:47	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 14:47	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 14:47	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN9_M_7/7/2021		Lab ID: 70179696004		Collected: 07/07/21 15:15		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 14:47	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 14:47	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 14:47	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 14:47	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:47	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 14:47	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 14:47	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 14:47	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 14:47	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 14:47	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102	%	69-122	1		07/12/21 14:47	460-00-4		
Toluene-d8 (S)	98	%	79-110	1		07/12/21 14:47	2037-26-5		
1,2-Dichloroethane-d4 (S)	98	%	74-119	1		07/12/21 14:47	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	32.0	mg/L	1.0	1		07/15/21 11:37			
Alkalinity,Bicarbonate (CaCO3)	32.0	mg/L	1.0	1		07/15/21 11:37			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/15/21 11:37		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	478	mg/L	20.0	1		07/14/21 16:25			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	186	mg/L	20.0	10		07/29/21 13:56	16887-00-6		
Sulfate	17.1	mg/L	5.0	1		07/27/21 22:10	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.71	mg/L	0.25	5		07/13/21 00:46	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:30	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		07/27/21 17:38	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW2_M_7/7/2021		Lab ID: 70179696005		Collected: 07/07/21 17:10		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	680	ug/L	200	1	07/13/21 08:45	07/16/21 11:37	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:37	7440-38-2		
Cadmium	10.4	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:37	7440-43-9		
Calcium	19800	ug/L	200	1	07/13/21 08:45	07/16/21 11:37	7440-70-2		
Chromium	2.4J	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:37	7440-47-3		
Iron	691	ug/L	100	1	07/13/21 08:45	07/16/21 11:37	7439-89-6		
Lead	17.1	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:37	7439-92-1		
Magnesium	4990	ug/L	200	1	07/13/21 08:45	07/16/21 11:37	7439-95-4		
Potassium	8370	ug/L	5000	1	07/13/21 08:45	07/16/21 11:37	7440-09-7		
Sodium	45600	ug/L	5000	1	07/13/21 08:45	07/16/21 11:37	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	70000	ug/L	830	1		07/16/21 11:37			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:44	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 15:06	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 15:06	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 15:06	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 15:06	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 15:06	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:06	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 15:06	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 15:06	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 15:06	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 15:06	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 15:06	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:06	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:06	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:06	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 15:06	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:06	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:06	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:06	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:06	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:06	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 15:06	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 15:06	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 15:06	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 15:06	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW2_M_7/7/2021		Lab ID: 70179696005		Collected: 07/07/21 17:10		Received: 07/08/21 08:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 15:06	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 15:06	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 15:06	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 15:06	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:06	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:06	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:06	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 15:06	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 15:06	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 15:06	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	103	%	69-122	1		07/12/21 15:06	460-00-4		
Toluene-d8 (S)	99	%	79-110	1		07/12/21 15:06	2037-26-5		
1,2-Dichloroethane-d4 (S)	99	%	74-119	1		07/12/21 15:06	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	43.5	mg/L	1.0	1		07/15/21 11:43			
Alkalinity,Bicarbonate (CaCO3)	43.5	mg/L	1.0	1		07/15/21 11:43			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/15/21 11:43		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	236	mg/L	20.0	1		07/14/21 16:26			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	63.8	mg/L	2.0	1		07/27/21 22:24	16887-00-6		
Sulfate	24.4	mg/L	5.0	1		07/27/21 22:24	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	2.0	mg/L	0.25	5		07/13/21 00:47	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:31	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.14	mg/L	0.10	1		07/27/21 17:39	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: STORAGE BLANK		Lab ID: 70179696006	Collected: 07/08/21 00:00	Received: 07/08/21 08:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		07/12/21 13:30	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 13:30	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/12/21 13:30	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 13:30	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 13:30	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:30	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 13:30	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		07/12/21 13:30	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 13:30	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 13:30	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:30	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:30	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:30	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 13:30	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:30	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:30	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:30	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:30	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:30	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 13:30	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 13:30	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 13:30	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 13:30	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 13:30	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 13:30	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 13:30	127-18-4	
Toluene	<1.0	ug/L	1.0	1		07/12/21 13:30	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:30	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:30	79-00-5	
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:30	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 13:30	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 13:30	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 13:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	69-122	1		07/12/21 13:30	460-00-4	
Toluene-d8 (S)	100	%	79-110	1		07/12/21 13:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	74-119	1		07/12/21 13:30	17060-07-0	

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: TRIP BLANK_7/8/2021		Lab ID: 70179696007		Collected: 07/08/21 00:00		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics	Analytical Method: EPA 624.1								
	Pace Analytical Services - Melville								
Benzene	<1.0	ug/L	1.0	1		07/12/21 13:49	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 13:49	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 13:49	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 13:49	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 13:49	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:49	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 13:49	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 13:49	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 13:49	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 13:49	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 13:49	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:49	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:49	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 13:49	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 13:49	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:49	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:49	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:49	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:49	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:49	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 13:49	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 13:49	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 13:49	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 13:49	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 13:49	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 13:49	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 13:49	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 13:49	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:49	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 13:49	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 13:49	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 13:49	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 13:49	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 13:49	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	69-122	1		07/12/21 13:49	460-00-4		
Toluene-d8 (S)	100	%	79-110	1		07/12/21 13:49	2037-26-5		
1,2-Dichloroethane-d4 (S)	100	%	74-119	1		07/12/21 13:49	17060-07-0		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-1S_7/8/2021		Lab ID: 70179696008		Collected: 07/08/21 11:25		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	97.3J	ug/L	200	1	07/13/21 08:45	07/16/21 11:44	7429-90-5		
Arsenic	33.3	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:44	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:44	7440-43-9		
Calcium	40700	ug/L	200	1	07/13/21 08:45	07/16/21 11:44	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:44	7440-47-3		
Iron	14600	ug/L	100	1	07/13/21 08:45	07/16/21 11:44	7439-89-6		
Lead	3.1J	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:44	7439-92-1		
Magnesium	13500	ug/L	200	1	07/13/21 08:45	07/16/21 11:44	7439-95-4		
Potassium	33000	ug/L	5000	1	07/13/21 08:45	07/16/21 11:44	7440-09-7		
Sodium	74300	ug/L	5000	1	07/13/21 08:45	07/16/21 11:44	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	157000	ug/L	830	1		07/16/21 11:44			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:44	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 15:25	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 15:25	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 15:25	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 15:25	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 15:25	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:25	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 15:25	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 15:25	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 15:25	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 15:25	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 15:25	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:25	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:25	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:25	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 15:25	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:25	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:25	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:25	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:25	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:25	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 15:25	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 15:25	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 15:25	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 15:25	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-1S_7/8/2021		Lab ID: 70179696008		Collected: 07/08/21 11:25		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 15:25	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 15:25	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 15:25	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 15:25	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:25	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:25	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:25	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 15:25	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 15:25	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 15:25	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102	%	69-122	1		07/12/21 15:25	460-00-4		
Toluene-d8 (S)	100	%	79-110	1		07/12/21 15:25	2037-26-5		
1,2-Dichloroethane-d4 (S)	98	%	74-119	1		07/12/21 15:25	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	305	mg/L	1.0	1		07/16/21 21:40			
Alkalinity,Bicarbonate (CaCO3)	305	mg/L	1.0	1		07/16/21 21:40			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 21:40		M1	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	422	mg/L	20.0	1		07/15/21 16:26			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	64.6	mg/L	2.0	1		07/27/21 22:37	16887-00-6		
Sulfate	54.3	mg/L	5.0	1		07/27/21 22:37	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.16	mg/L	0.050	1		07/13/21 00:48	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:33	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	31.0	mg/L	1.0	10		07/27/21 18:34	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-1M_7/8/2021		Lab ID: 70179696009		Collected: 07/08/21 10:20		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	494	ug/L	200	1	07/13/21 08:45	07/16/21 11:51	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:51	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:51	7440-43-9		
Calcium	20700	ug/L	200	1	07/13/21 08:45	07/16/21 11:51	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:51	7440-47-3		
Iron	7340	ug/L	100	1	07/13/21 08:45	07/16/21 11:51	7439-89-6		
Lead	5.3	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:51	7439-92-1		
Magnesium	12900	ug/L	200	1	07/13/21 08:45	07/16/21 11:51	7439-95-4		
Potassium	2480J	ug/L	5000	1	07/13/21 08:45	07/16/21 11:51	7440-09-7		
Sodium	10200	ug/L	5000	1	07/13/21 08:45	07/16/21 11:51	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	105000	ug/L	830	1		07/16/21 11:51			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:45	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 15:45	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 15:45	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 15:45	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 15:45	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 15:45	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:45	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 15:45	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 15:45	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 15:45	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 15:45	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 15:45	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:45	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:45	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 15:45	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 15:45	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:45	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:45	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:45	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:45	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:45	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 15:45	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 15:45	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 15:45	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 15:45	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-1M_7/8/2021		Lab ID: 70179696009		Collected: 07/08/21 10:20		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 15:45	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 15:45	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 15:45	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 15:45	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:45	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 15:45	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 15:45	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 15:45	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 15:45	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 15:45	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	69-122	1		07/12/21 15:45	460-00-4		
Toluene-d8 (S)	97	%	79-110	1		07/12/21 15:45	2037-26-5		
1,2-Dichloroethane-d4 (S)	96	%	74-119	1		07/12/21 15:45	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	49.1	mg/L	1.0	1		07/16/21 11:04			
Alkalinity,Bicarbonate (CaCO3)	49.1	mg/L	1.0	1		07/16/21 11:04			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 11:04		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	175	mg/L	10.0	1		07/15/21 16:28			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	20.1	mg/L	2.0	1		07/27/21 22:51	16887-00-6		
Sulfate	49.4	mg/L	5.0	1		07/27/21 22:51	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.076	mg/L	0.050	1		07/13/21 00:49	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:34	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.30	mg/L	0.10	1		07/27/21 17:44	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-4M_7/8/2021		Lab ID: 70179696010		Collected: 07/08/21 13:45		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	107J	ug/L	200	1	07/13/21 08:45	07/16/21 11:53	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:53	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:53	7440-43-9		
Calcium	24300	ug/L	200	1	07/13/21 08:45	07/16/21 11:53	7440-70-2		
Chromium	2.4J	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:53	7440-47-3		
Iron	230	ug/L	100	1	07/13/21 08:45	07/16/21 11:53	7439-89-6		
Lead	2.4J	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:53	7439-92-1		
Magnesium	8960	ug/L	200	1	07/13/21 08:45	07/16/21 11:53	7439-95-4		
Potassium	1480J	ug/L	5000	1	07/13/21 08:45	07/16/21 11:53	7440-09-7		
Sodium	16000	ug/L	5000	1	07/13/21 08:45	07/16/21 11:53	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	97600	ug/L	830	1		07/16/21 11:53			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:46	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 16:04	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 16:04	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 16:04	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 16:04	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 16:04	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:04	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 16:04	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 16:04	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 16:04	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 16:04	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 16:04	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:04	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:04	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:04	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 16:04	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:04	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:04	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:04	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:04	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:04	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 16:04	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 16:04	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 16:04	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 16:04	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-4M_7/8/2021		Lab ID: 70179696010		Collected: 07/08/21 13:45		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 16:04	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 16:04	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 16:04	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 16:04	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:04	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:04	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:04	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 16:04	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 16:04	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 16:04	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	104	%	69-122	1		07/12/21 16:04	460-00-4		
Toluene-d8 (S)	100	%	79-110	1		07/12/21 16:04	2037-26-5		
1,2-Dichloroethane-d4 (S)	98	%	74-119	1		07/12/21 16:04	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	42.4	mg/L	1.0	1		07/16/21 11:11			
Alkalinity,Bicarbonate (CaCO3)	42.4	mg/L	1.0	1		07/16/21 11:11			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 11:11		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	208	mg/L	10.0	1		07/15/21 16:45			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	31.1	mg/L	2.0	1		07/27/21 23:04	16887-00-6		
Sulfate	27.8	mg/L	5.0	1		07/27/21 23:04	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	5.7	mg/L	0.25	5		07/13/21 00:50	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:35	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		07/27/21 17:45	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-4S_7/8/2021		Lab ID: 70179696011		Collected: 07/08/21 15:40		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	133J	ug/L	200	1	07/13/21 08:45	07/16/21 11:56	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:56	7440-38-2		
Cadmium	16.7	ug/L	2.5	1	07/13/21 08:45	07/16/21 11:56	7440-43-9		
Calcium	16600	ug/L	200	1	07/13/21 08:45	07/16/21 11:56	7440-70-2		
Chromium	2.4J	ug/L	10.0	1	07/13/21 08:45	07/16/21 11:56	7440-47-3		
Iron	1570	ug/L	100	1	07/13/21 08:45	07/16/21 11:56	7439-89-6		
Lead	14.7	ug/L	5.0	1	07/13/21 08:45	07/16/21 11:56	7439-92-1		
Magnesium	6080	ug/L	200	1	07/13/21 08:45	07/16/21 11:56	7439-95-4		
Potassium	4030J	ug/L	5000	1	07/13/21 08:45	07/16/21 11:56	7440-09-7		
Sodium	16200	ug/L	5000	1	07/13/21 08:45	07/16/21 11:56	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	66500	ug/L	830	1		07/16/21 11:56			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/23/21 10:52	07/25/21 16:47	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/12/21 16:24	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/12/21 16:24	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/12/21 16:24	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/12/21 16:24	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/12/21 16:24	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:24	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/12/21 16:24	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/12/21 16:24	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/12/21 16:24	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/12/21 16:24	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/12/21 16:24	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:24	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:24	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/12/21 16:24	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/12/21 16:24	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:24	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:24	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:24	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:24	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:24	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/12/21 16:24	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 16:24	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/12/21 16:24	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/12/21 16:24	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: CW-4S_7/8/2021		Lab ID: 70179696011		Collected: 07/08/21 15:40		Received: 07/08/21 16:46		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/12/21 16:24	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/12/21 16:24	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/12/21 16:24	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/12/21 16:24	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:24	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/12/21 16:24	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/12/21 16:24	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/12/21 16:24	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/12/21 16:24	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/12/21 16:24	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	69-122	1		07/12/21 16:24	460-00-4		
Toluene-d8 (S)	99	%	79-110	1		07/12/21 16:24	2037-26-5		
1,2-Dichloroethane-d4 (S)	100	%	74-119	1		07/12/21 16:24	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	25.8	mg/L	1.0	1		07/16/21 11:17			
Alkalinity,Bicarbonate (CaCO3)	25.8	mg/L	1.0	1		07/16/21 11:17			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 11:17		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	202	mg/L	10.0	1		07/15/21 16:45			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	32.5	mg/L	2.0	1		07/27/21 23:18	16887-00-6		
Sulfate	19.5	mg/L	5.0	1		07/27/21 23:18	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	5.9	mg/L	0.25	5		07/13/21 00:52	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/09/21 00:39	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.20	mg/L	0.10	1		07/27/21 17:46	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: TRIP BLANK_7/12/21		Lab ID: 70179696012		Collected: 07/12/21 00:00		Received: 07/13/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/14/21 15:27	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 15:27	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/14/21 15:27	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 15:27	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 15:27	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:27	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 15:27	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 15:27	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/14/21 15:27	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 15:27	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 15:27	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:27	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:27	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:27	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 15:27	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:27	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:27	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:27	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:27	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:27	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 15:27	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 15:27	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 15:27	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 15:27	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/14/21 15:27	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 15:27	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 15:27	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/14/21 15:27	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:27	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:27	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:27	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 15:27	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 15:27	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 15:27	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	69-122	1		07/14/21 15:27	460-00-4		
Toluene-d8 (S)	99	%	79-110	1		07/14/21 15:27	2037-26-5		
1,2-Dichloroethane-d4 (S)	102	%	74-119	1		07/14/21 15:27	17060-07-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN 7-M_7/12/21		Lab ID: 70179696013		Collected: 07/12/21 11:00		Received: 07/13/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	381	ug/L	200	1	07/26/21 08:59	07/27/21 19:57	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/26/21 08:59	07/27/21 19:57	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/26/21 08:59	07/27/21 19:57	7440-43-9		
Calcium	74900	ug/L	200	1	07/26/21 08:59	07/27/21 19:57	7440-70-2		
Chromium	1.3J	ug/L	10.0	1	07/26/21 08:59	07/27/21 19:57	7440-47-3		
Iron	1370	ug/L	100	1	07/26/21 08:59	07/27/21 19:57	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/26/21 08:59	07/27/21 19:57	7439-92-1		
Magnesium	18600	ug/L	200	1	07/26/21 08:59	07/27/21 19:57	7439-95-4		
Potassium	22400	ug/L	5000	1	07/26/21 08:59	07/27/21 19:57	7440-09-7		
Sodium	142000	ug/L	5000	1	07/26/21 08:59	07/27/21 19:57	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	264000	ug/L	830	1		07/27/21 19:57			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/27/21 10:29	07/28/21 12:51	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/14/21 15:46	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 15:46	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/14/21 15:46	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 15:46	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 15:46	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:46	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 15:46	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 15:46	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/14/21 15:46	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 15:46	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 15:46	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:46	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:46	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 15:46	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 15:46	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:46	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:46	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:46	75-35-4		
cis-1,2-Dichloroethene	1.0	ug/L	1.0	1		07/14/21 15:46	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:46	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 15:46	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 15:46	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 15:46	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 15:46	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN 7-M_7/12/21		Lab ID: 70179696013		Collected: 07/12/21 11:00		Received: 07/13/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/14/21 15:46	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 15:46	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 15:46	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/14/21 15:46	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:46	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 15:46	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 15:46	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 15:46	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 15:46	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 15:46	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	69-122	1		07/14/21 15:46	460-00-4		
Toluene-d8 (S)	100	%	79-110	1		07/14/21 15:46	2037-26-5		
1,2-Dichloroethane-d4 (S)	99	%	74-119	1		07/14/21 15:46	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	368	mg/L	1.0	1		07/16/21 11:42			
Alkalinity,Bicarbonate (CaCO3)	368	mg/L	1.0	1		07/16/21 11:42			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 11:42		L2,M0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	652	mg/L	20.0	1		07/16/21 17:43			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	170	mg/L	20.0	10		07/29/21 14:10	16887-00-6		
Sulfate	60.0	mg/L	5.0	1		07/27/21 23:59	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		07/14/21 03:52	7727-37-9	M1	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/13/21 23:50	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	10.6	mg/L	1.0	10		07/27/21 18:36	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN 1-M_7/12/21		Lab ID: 70179696014		Collected: 07/12/21 15:10		Received: 07/13/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	72.9J	ug/L	200	1	07/26/21 08:59	07/27/21 20:13	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:13	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/26/21 08:59	07/27/21 20:13	7440-43-9		
Calcium	22800	ug/L	200	1	07/26/21 08:59	07/27/21 20:13	7440-70-2		
Chromium	394	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:13	7440-47-3		
Iron	2080	ug/L	100	1	07/26/21 08:59	07/27/21 20:13	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/26/21 08:59	07/27/21 20:13	7439-92-1		
Magnesium	8430	ug/L	200	1	07/26/21 08:59	07/27/21 20:13	7439-95-4		
Potassium	1690J	ug/L	5000	1	07/26/21 08:59	07/27/21 20:13	7440-09-7		
Sodium	24300	ug/L	5000	1	07/26/21 08:59	07/27/21 20:13	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	91600	ug/L	830	1		07/27/21 20:13			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/27/21 10:29	07/28/21 12:54	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/14/21 16:05	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 16:05	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/14/21 16:05	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 16:05	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 16:05	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:05	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 16:05	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 16:05	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/14/21 16:05	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 16:05	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 16:05	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:05	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:05	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:05	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 16:05	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:05	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:05	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:05	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:05	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:05	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 16:05	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 16:05	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 16:05	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 16:05	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN 1-M_7/12/21		Lab ID: 70179696014		Collected: 07/12/21 15:10		Received: 07/13/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/14/21 16:05	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 16:05	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 16:05	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/14/21 16:05	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:05	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:05	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:05	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 16:05	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 16:05	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 16:05	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	98	%	69-122	1		07/14/21 16:05	460-00-4		
Toluene-d8 (S)	100	%	79-110	1		07/14/21 16:05	2037-26-5		
1,2-Dichloroethane-d4 (S)	100	%	74-119	1		07/14/21 16:05	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	21.2	mg/L	1.0	1		07/16/21 12:22			
Alkalinity,Bicarbonate (CaCO3)	21.2	mg/L	1.0	1		07/16/21 12:22			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 12:22		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	254	mg/L	20.0	1		07/16/21 17:45			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	56.1	mg/L	2.0	1		07/28/21 00:39	16887-00-6		
Sulfate	28.5	mg/L	5.0	1		07/28/21 00:39	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	4.9	mg/L	0.25	5		07/14/21 03:55	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/13/21 23:53	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		07/27/21 17:51	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: BLIND DUPLICATE_7/12/21 Lab ID: 70179696015 Collected: 07/12/21 00:00 Received: 07/13/21 09:37 Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville								
Aluminum	61.5J	ug/L	200	1	07/26/21 08:59	07/27/21 20:15	7429-90-5	
Arsenic	<10.0	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:15	7440-38-2	
Cadmium	<2.5	ug/L	2.5	1	07/26/21 08:59	07/27/21 20:15	7440-43-9	
Calcium	23600	ug/L	200	1	07/26/21 08:59	07/27/21 20:15	7440-70-2	
Chromium	359	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:15	7440-47-3	
Iron	2090	ug/L	100	1	07/26/21 08:59	07/27/21 20:15	7439-89-6	
Lead	<5.0	ug/L	5.0	1	07/26/21 08:59	07/27/21 20:15	7439-92-1	
Magnesium	8730	ug/L	200	1	07/26/21 08:59	07/27/21 20:15	7439-95-4	
Potassium	1690J	ug/L	5000	1	07/26/21 08:59	07/27/21 20:15	7440-09-7	
Sodium	25200	ug/L	5000	1	07/26/21 08:59	07/27/21 20:15	7440-23-5	
2340B Hardness, Total (Calc.) Analytical Method: SM22 2340B Pace Analytical Services - Melville								
Tot Hardness asCaCO3 (SM 2340B)	94900	ug/L	830	1		07/27/21 20:15		
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville								
Mercury	<0.20	ug/L	0.20	1	07/27/21 10:29	07/28/21 12:57	7439-97-6	
624.1 Volatile Organics Analytical Method: EPA 624.1 Pace Analytical Services - Melville								
Benzene	<1.0	ug/L	1.0	1		07/14/21 16:25	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 16:25	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/14/21 16:25	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 16:25	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 16:25	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:25	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 16:25	75-00-3	
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 16:25	110-75-8	
Chloroform	<1.0	ug/L	1.0	1		07/14/21 16:25	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 16:25	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 16:25	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:25	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:25	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:25	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 16:25	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:25	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:25	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:25	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:25	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:25	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 16:25	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 16:25	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 16:25	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 16:25	100-41-4	

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: BLIND DUPLICATE_7/12/21 Lab ID: 70179696015 Collected: 07/12/21 00:00 Received: 07/13/21 09:37 Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics								
Analytical Method: EPA 624.1								
Pace Analytical Services - Melville								
Methylene Chloride	<1.0	ug/L	1.0	1		07/14/21 16:25	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 16:25	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 16:25	127-18-4	
Toluene	<1.0	ug/L	1.0	1		07/14/21 16:25	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:25	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:25	79-00-5	
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:25	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 16:25	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 16:25	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 16:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	69-122	1		07/14/21 16:25	460-00-4	
Toluene-d8 (S)	101	%	79-110	1		07/14/21 16:25	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	74-119	1		07/14/21 16:25	17060-07-0	
2320B Alkalinity								
Analytical Method: SM22 2320B								
Pace Analytical Services - Melville								
Alkalinity, Total as CaCO ₃	22.0	mg/L	1.0	1		07/16/21 12:28		
Alkalinity,Bicarbonate (CaCO ₃)	22.0	mg/L	1.0	1		07/16/21 12:28		
Alkalinity,Carbonate (CaCO ₃)	<1.0	mg/L	1.0	1		07/16/21 12:28		L2
2540C Total Dissolved Solids								
Analytical Method: SM22 2540C								
Pace Analytical Services - Melville								
Total Dissolved Solids	210	mg/L	20.0	1		07/16/21 17:40		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Melville								
Chloride	56.6	mg/L	2.0	1		07/28/21 00:53	16887-00-6	
Sulfate	28.7	mg/L	5.0	1		07/28/21 00:53	14808-79-8	
353.2 Nitrogen, NO₂/NO₃ pres.								
Analytical Method: EPA 353.2								
Pace Analytical Services - Melville								
Nitrate-Nitrite (as N)	5.7	mg/L	0.25	5		07/14/21 03:56	7727-37-9	
353.2 Nitrogen, NO₂								
Analytical Method: EPA 353.2								
Pace Analytical Services - Melville								
Nitrite as N	<0.050	mg/L	0.050	1		07/13/21 23:55	14797-65-0	
4500 Ammonia Water								
Analytical Method: SM22 4500 NH ₃ H								
Pace Analytical Services - Melville								
Nitrogen, Ammonia	0.10	mg/L	0.10	1		07/27/21 17:52	7664-41-7	

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN10-M_7/13/21		Lab ID: 70179696016		Collected: 07/13/21 17:30		Received: 07/14/21 09:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200	1	07/26/21 08:59	07/27/21 20:48	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:48	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/26/21 08:59	07/27/21 20:48	7440-43-9		
Calcium	15400	ug/L	200	1	07/26/21 08:59	07/27/21 20:48	7440-70-2		
Chromium	1.6J	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:48	7440-47-3		
Iron	24.4J	ug/L	100	1	07/26/21 08:59	07/27/21 20:48	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/26/21 08:59	07/27/21 20:48	7439-92-1		
Magnesium	5790	ug/L	200	1	07/26/21 08:59	07/27/21 20:48	7439-95-4		
Potassium	2190J	ug/L	5000	1	07/26/21 08:59	07/27/21 20:48	7440-09-7		
Sodium	17600	ug/L	5000	1	07/26/21 08:59	07/27/21 20:48	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	62300	ug/L	830	1		07/27/21 20:48			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/27/21 10:29	07/28/21 13:01	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/14/21 16:44	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 16:44	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/14/21 16:44	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 16:44	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 16:44	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:44	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 16:44	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 16:44	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/14/21 16:44	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 16:44	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 16:44	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:44	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:44	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 16:44	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 16:44	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:44	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:44	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:44	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:44	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:44	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 16:44	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 16:44	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 16:44	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 16:44	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: EN10-M_7/13/21		Lab ID: 70179696016		Collected: 07/13/21 17:30		Received: 07/14/21 09:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	<1.0	ug/L	1.0	1		07/14/21 16:44	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 16:44	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 16:44	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/14/21 16:44	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:44	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 16:44	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 16:44	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 16:44	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 16:44	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 16:44	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	99	%	69-122	1		07/14/21 16:44	460-00-4		
Toluene-d8 (S)	101	%	79-110	1		07/14/21 16:44	2037-26-5		
1,2-Dichloroethane-d4 (S)	99	%	74-119	1		07/14/21 16:44	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	14.7	mg/L	1.0	1		07/16/21 13:48			
Alkalinity,Bicarbonate (CaCO3)	14.7	mg/L	1.0	1		07/16/21 13:48			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 13:48			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	167	mg/L	10.0	1		07/19/21 17:51			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	28.5	mg/L	2.0	1		07/28/21 01:07	16887-00-6		
Sulfate	23.5	mg/L	5.0	1		07/28/21 01:07	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	5.2	mg/L	0.25	5		07/15/21 02:06	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/14/21 22:55	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.11	mg/L	0.10	1		07/27/21 17:54	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: FIELD BLANK		Lab ID: 70179696017		Collected: 07/13/21 00:00		Received: 07/14/21 09:42		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200	1	07/26/21 08:59	07/27/21 20:50	7429-90-5		
Arsenic	<10.0	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:50	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	07/26/21 08:59	07/27/21 20:50	7440-43-9		
Calcium	<200	ug/L	200	1	07/26/21 08:59	07/27/21 20:50	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	07/26/21 08:59	07/27/21 20:50	7440-47-3		
Iron	<100	ug/L	100	1	07/26/21 08:59	07/27/21 20:50	7439-89-6		
Lead	<5.0	ug/L	5.0	1	07/26/21 08:59	07/27/21 20:50	7439-92-1		
Magnesium	<200	ug/L	200	1	07/26/21 08:59	07/27/21 20:50	7439-95-4		
Potassium	<5000	ug/L	5000	1	07/26/21 08:59	07/27/21 20:50	7440-09-7		
Sodium	<5000	ug/L	5000	1	07/26/21 08:59	07/27/21 20:50	7440-23-5		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	<830	ug/L	830	1		07/27/21 20:50			
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	07/27/21 10:29	07/28/21 13:02	7439-97-6		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/14/21 17:03	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 17:03	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/14/21 17:03	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 17:03	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 17:03	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:03	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 17:03	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 17:03	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/14/21 17:03	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 17:03	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 17:03	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:03	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:03	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:03	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 17:03	75-71-8		v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:03	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:03	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:03	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:03	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:03	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 17:03	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 17:03	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 17:03	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 17:03	100-41-4		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: FIELD BLANK		Lab ID: 70179696017		Collected: 07/13/21 00:00		Received: 07/14/21 09:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Methylene Chloride	1.6	ug/L	1.0	1		07/14/21 17:03	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 17:03	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 17:03	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/14/21 17:03	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:03	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:03	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:03	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 17:03	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 17:03	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 17:03	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	69-122	1		07/14/21 17:03	460-00-4		
Toluene-d8 (S)	102	%	79-110	1		07/14/21 17:03	2037-26-5		
1,2-Dichloroethane-d4 (S)	98	%	74-119	1		07/14/21 17:03	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		07/16/21 13:52			
Alkalinity,Bicarbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 13:52			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/16/21 13:52			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	66.0	mg/L	10.0	1		07/19/21 17:52			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	<2.0	mg/L	2.0	1		07/28/21 01:20	16887-00-6		
Sulfate	<5.0	mg/L	5.0	1		07/28/21 01:20	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	<0.25	mg/L	0.25	5		07/15/21 02:07	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/14/21 22:56	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		07/27/21 17:55	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: TRIP BLANK		Lab ID: 70179696018		Collected: 07/13/21 00:00		Received: 07/14/21 09:42		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/14/21 17:22	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/14/21 17:22	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/14/21 17:22	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/14/21 17:22	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/14/21 17:22	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:22	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/14/21 17:22	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/14/21 17:22	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/14/21 17:22	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/14/21 17:22	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/14/21 17:22	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:22	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:22	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/14/21 17:22	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/14/21 17:22	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:22	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:22	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:22	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:22	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:22	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/14/21 17:22	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 17:22	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/14/21 17:22	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/14/21 17:22	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/14/21 17:22	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/14/21 17:22	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/14/21 17:22	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/14/21 17:22	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:22	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/14/21 17:22	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/14/21 17:22	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/14/21 17:22	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/14/21 17:22	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/14/21 17:22	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	69-122	1		07/14/21 17:22	460-00-4		
Toluene-d8 (S)	101	%	79-110	1		07/14/21 17:22	2037-26-5		
1,2-Dichloroethane-d4 (S)	101	%	74-119	1		07/14/21 17:22	17060-07-0		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: TRIP BLANK_7/20/2021		Lab ID: 70179696019		Collected: 07/20/21 00:00		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics	Analytical Method: EPA 624.1								
	Pace Analytical Services - Melville								
Benzene	<1.0	ug/L	1.0	1		07/23/21 19:46	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/23/21 19:46	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/23/21 19:46	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/23/21 19:46	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/23/21 19:46	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:46	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/23/21 19:46	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/23/21 19:46	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/23/21 19:46	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/23/21 19:46	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/23/21 19:46	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:46	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:46	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:46	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/23/21 19:46	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:46	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:46	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:46	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:46	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:46	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/23/21 19:46	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 19:46	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 19:46	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/23/21 19:46	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/23/21 19:46	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/23/21 19:46	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/23/21 19:46	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/23/21 19:46	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:46	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:46	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:46	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/23/21 19:46	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/23/21 19:46	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/23/21 19:46	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	69-122	1		07/23/21 19:46	460-00-4		
Toluene-d8 (S)	103	%	79-110	1		07/23/21 19:46	2037-26-5		
1,2-Dichloroethane-d4 (S)	88	%	74-119	1		07/23/21 19:46	17060-07-0		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-1		Lab ID: 70179696020		Collected: 07/20/21 11:35		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	81300	ug/L	830	1		07/30/21 17:38			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Calcium	19700	ug/L	200	1	07/29/21 10:09	07/30/21 17:38	7440-70-2		
Magnesium	7800	ug/L	200	1	07/29/21 10:09	07/30/21 17:38	7439-95-4		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/23/21 19:27	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/23/21 19:27	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/23/21 19:27	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/23/21 19:27	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/23/21 19:27	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:27	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/23/21 19:27	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/23/21 19:27	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/23/21 19:27	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/23/21 19:27	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/23/21 19:27	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:27	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:27	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:27	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/23/21 19:27	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:27	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:27	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:27	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:27	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:27	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/23/21 19:27	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 19:27	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 19:27	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/23/21 19:27	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/23/21 19:27	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/23/21 19:27	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/23/21 19:27	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/23/21 19:27	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:27	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:27	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:27	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/23/21 19:27	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/23/21 19:27	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/23/21 19:27	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	69-122	1		07/23/21 19:27	460-00-4		
Toluene-d8 (S)	103	%	79-110	1		07/23/21 19:27	2037-26-5		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-1		Lab ID: 70179696020		Collected: 07/20/21 11:35		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Surrogates									
1,2-Dichloroethane-d4 (S)	88	%	74-119	1		07/23/21 19:27	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	47.6	mg/L	1.0	1		07/23/21 12:59			
Alkalinity,Bicarbonate (CaCO3)	47.6	mg/L	1.0	1		07/23/21 12:59			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 12:59			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	91.0	mg/L	10.0	1		07/23/21 17:30			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	56.1	mg/L	2.0	1		07/28/21 01:34	16887-00-6		
Sulfate	16.3	mg/L	5.0	1		07/28/21 01:34	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.83	mg/L	0.25	5		07/21/21 03:13	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	0.073	mg/L	0.050	1		07/21/21 00:15	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.055J	mg/L	0.10	1		07/27/21 17:58	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-2		Lab ID: 70179696021	Collected: 07/20/21 09:00	Received: 07/20/21 15:48	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B	290000	ug/L	830	1		07/30/21 17:40		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Calcium	41700	ug/L	200	1	07/29/21 10:09	07/30/21 17:40	7440-70-2	
Magnesium	45100	ug/L	200	1	07/29/21 10:09	07/30/21 17:40	7439-95-4	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		07/23/21 19:07	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/23/21 19:07	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/23/21 19:07	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/23/21 19:07	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/23/21 19:07	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:07	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/23/21 19:07	75-00-3	
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/23/21 19:07	110-75-8	
Chloroform	<1.0	ug/L	1.0	1		07/23/21 19:07	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/23/21 19:07	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/23/21 19:07	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:07	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:07	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 19:07	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/23/21 19:07	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:07	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:07	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:07	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:07	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:07	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/23/21 19:07	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 19:07	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 19:07	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		07/23/21 19:07	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/23/21 19:07	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/23/21 19:07	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		07/23/21 19:07	127-18-4	
Toluene	<1.0	ug/L	1.0	1		07/23/21 19:07	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:07	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 19:07	79-00-5	
Trichloroethene	<1.0	ug/L	1.0	1		07/23/21 19:07	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/23/21 19:07	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		07/23/21 19:07	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		07/23/21 19:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	69-122	1		07/23/21 19:07	460-00-4	
Toluene-d8 (S)	104	%	79-110	1		07/23/21 19:07	2037-26-5	

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-2		Lab ID: 70179696021		Collected: 07/20/21 09:00		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Surrogates									
1,2-Dichloroethane-d4 (S)	88	%	74-119	1		07/23/21 19:07	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	107	mg/L	1.0	1		07/23/21 13:07			
Alkalinity,Bicarbonate (CaCO3)	107	mg/L	1.0	1		07/23/21 13:07			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 13:07			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	571	mg/L	10.0	1		07/23/21 17:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	691	mg/L	20.0	10		07/29/21 14:50	16887-00-6		
Sulfate	86.3	mg/L	5.0	1		07/28/21 01:47	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	1.2	mg/L	0.25	5		07/21/21 03:15	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	0.032J	mg/L	0.050	1		07/21/21 00:16	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.082J	mg/L	0.10	1		07/27/21 18:00	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-3		Lab ID: 70179696022	Collected: 07/20/21 09:35	Received: 07/20/21 15:48	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	1200000	ug/L	830	1		07/30/21 17:42		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Calcium	93300	ug/L	200	1	07/29/21 10:09	07/30/21 17:42	7440-70-2	
Magnesium	235000	ug/L	200	1	07/29/21 10:09	07/30/21 17:42	7439-95-4	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		07/23/21 18:48	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/23/21 18:48	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/23/21 18:48	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/23/21 18:48	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/23/21 18:48	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/23/21 18:48	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/23/21 18:48	75-00-3	
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/23/21 18:48	110-75-8	
Chloroform	<1.0	ug/L	1.0	1		07/23/21 18:48	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/23/21 18:48	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/23/21 18:48	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 18:48	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 18:48	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/23/21 18:48	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/23/21 18:48	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 18:48	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/23/21 18:48	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 18:48	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 18:48	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/23/21 18:48	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/23/21 18:48	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 18:48	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/23/21 18:48	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		07/23/21 18:48	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/23/21 18:48	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/23/21 18:48	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		07/23/21 18:48	127-18-4	
Toluene	<1.0	ug/L	1.0	1		07/23/21 18:48	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 18:48	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/23/21 18:48	79-00-5	
Trichloroethene	<1.0	ug/L	1.0	1		07/23/21 18:48	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/23/21 18:48	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		07/23/21 18:48	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		07/23/21 18:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	69-122	1		07/23/21 18:48	460-00-4	
Toluene-d8 (S)	103	%	79-110	1		07/23/21 18:48	2037-26-5	

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-3		Lab ID: 70179696022		Collected: 07/20/21 09:35		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Surrogates									
1,2-Dichloroethane-d4 (S)	87	%	74-119	1		07/23/21 18:48	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	99.7	mg/L	1.0	1		07/23/21 13:16			
Alkalinity,Bicarbonate (CaCO3)	99.7	mg/L	1.0	1		07/23/21 13:16			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 13:16			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	6030	mg/L	50.0	1		07/26/21 14:53			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	3230	mg/L	200	100		07/29/21 15:18	16887-00-6		
Sulfate	563	mg/L	50.0	10		07/29/21 15:04	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.99	mg/L	0.25	5		07/21/21 03:18	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	0.033J	mg/L	0.050	1		07/21/21 00:17	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.39	mg/L	0.10	1		07/27/21 18:03	7664-41-7		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-4		Lab ID: 70179696023		Collected: 07/20/21 11:10		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	83500	ug/L	830	1		07/30/21 17:45			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Calcium	20000	ug/L	200	1	07/29/21 10:09	07/30/21 17:45	7440-70-2		
Magnesium	8160	ug/L	200	1	07/29/21 10:09	07/30/21 17:45	7439-95-4		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/25/21 20:24	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/25/21 20:24	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/25/21 20:24	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/25/21 20:24	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/25/21 20:24	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:24	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/25/21 20:24	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/25/21 20:24	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/25/21 20:24	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/25/21 20:24	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/25/21 20:24	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:24	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:24	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:24	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/25/21 20:24	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:24	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:24	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:24	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:24	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:24	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/25/21 20:24	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 20:24	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 20:24	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/25/21 20:24	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/25/21 20:24	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/25/21 20:24	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/25/21 20:24	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/25/21 20:24	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:24	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:24	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:24	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/25/21 20:24	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/25/21 20:24	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/25/21 20:24	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102	%	69-122	1		07/25/21 20:24	460-00-4		
Toluene-d8 (S)	104	%	79-110	1		07/25/21 20:24	2037-26-5		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-4		Lab ID: 70179696023	Collected: 07/20/21 11:10		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	74-119	1		07/25/21 20:24	17060-07-0	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	43.3	mg/L	1.0	1		07/23/21 13:23		
Alkalinity,Bicarbonate (CaCO3)	43.3	mg/L	1.0	1		07/23/21 13:23		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 13:23		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	242	mg/L	20.0	1		07/26/21 14:53		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Chloride	64.5	mg/L	2.0	1		07/28/21 02:42	16887-00-6	
Sulfate	19.4	mg/L	5.0	1		07/28/21 02:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	1.9	mg/L	0.25	5		07/21/21 03:19	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	0.068	mg/L	0.050	1		07/21/21 00:18	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.14	mg/L	0.10	1		07/27/21 18:04	7664-41-7	

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-5		Lab ID: 70179696024		Collected: 07/20/21 10:30		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	128000	ug/L	830	1		07/30/21 17:47			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Calcium	23300	ug/L	200	1	07/29/21 10:09	07/30/21 17:47	7440-70-2		
Magnesium	17000	ug/L	200	1	07/29/21 10:09	07/30/21 17:47	7439-95-4		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/25/21 20:43	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/25/21 20:43	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/25/21 20:43	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/25/21 20:43	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/25/21 20:43	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:43	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/25/21 20:43	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/25/21 20:43	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/25/21 20:43	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/25/21 20:43	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/25/21 20:43	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:43	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:43	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 20:43	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/25/21 20:43	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:43	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:43	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:43	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:43	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:43	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/25/21 20:43	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 20:43	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 20:43	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/25/21 20:43	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/25/21 20:43	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/25/21 20:43	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/25/21 20:43	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/25/21 20:43	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:43	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 20:43	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/25/21 20:43	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/25/21 20:43	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/25/21 20:43	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/25/21 20:43	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	69-122	1		07/25/21 20:43	460-00-4		
Toluene-d8 (S)	102	%	79-110	1		07/25/21 20:43	2037-26-5		

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-5		Lab ID: 70179696024		Collected: 07/20/21 10:30		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Surrogates									
1,2-Dichloroethane-d4 (S)	85	%	74-119	1		07/25/21 20:43	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	50.8	mg/L	1.0	1		07/23/21 13:29			
Alkalinity,Bicarbonate (CaCO3)	50.8	mg/L	1.0	1		07/23/21 13:29			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 13:29			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	442	mg/L	20.0	1		07/26/21 14:54			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	237	mg/L	20.0	10		07/29/21 15:31	16887-00-6		
Sulfate	35.7	mg/L	5.0	1		07/28/21 02:55	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	1.1	mg/L	0.25	5		07/21/21 03:21	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	0.063	mg/L	0.050	1		07/21/21 00:19	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.11	mg/L	0.10	1		07/27/21 18:06	7664-41-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-6		Lab ID: 70179696025		Collected: 07/20/21 12:30		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	62100	ug/L	830	1		07/30/21 17:49			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Calcium	13000	ug/L	200	1	07/29/21 10:09	07/30/21 17:49	7440-70-2		
Magnesium	7190	ug/L	200	1	07/29/21 10:09	07/30/21 17:49	7439-95-4		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/25/21 21:02	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/25/21 21:02	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/25/21 21:02	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/25/21 21:02	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/25/21 21:02	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:02	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/25/21 21:02	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/25/21 21:02	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/25/21 21:02	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/25/21 21:02	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/25/21 21:02	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:02	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:02	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:02	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/25/21 21:02	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:02	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:02	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:02	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:02	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:02	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/25/21 21:02	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 21:02	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 21:02	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/25/21 21:02	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/25/21 21:02	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/25/21 21:02	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/25/21 21:02	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/25/21 21:02	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:02	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:02	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:02	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/25/21 21:02	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/25/21 21:02	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/25/21 21:02	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102	%	69-122	1		07/25/21 21:02	460-00-4		
Toluene-d8 (S)	103	%	79-110	1		07/25/21 21:02	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-6		Lab ID: 70179696025		Collected: 07/20/21 12:30		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Surrogates									
1,2-Dichloroethane-d4 (S)	86	%	74-119	1		07/25/21 21:02	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	36.0	mg/L	1.0	1		07/23/21 13:36			
Alkalinity,Bicarbonate (CaCO3)	36.0	mg/L	1.0	1		07/23/21 13:36			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 13:36			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	230	mg/L	20.0	1		07/26/21 15:13			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	169	mg/L	20.0	10		07/29/21 15:45	16887-00-6		
Sulfate	18.1	mg/L	5.0	1		07/28/21 03:09	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		07/21/21 03:22	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		07/21/21 00:20	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.099J	mg/L	0.10	1		07/27/21 18:07	7664-41-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-7		Lab ID: 70179696026		Collected: 07/20/21 13:45		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	2800000	ug/L	830	1		07/30/21 17:52			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Calcium	185000	ug/L	200	1	07/29/21 10:09	07/30/21 17:52	7440-70-2		
Magnesium	568000	ug/L	200	1	07/29/21 10:09	07/30/21 17:52	7439-95-4		
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		07/25/21 21:22	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/25/21 21:22	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/25/21 21:22	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/25/21 21:22	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/25/21 21:22	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:22	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/25/21 21:22	75-00-3		
2-Chloroethylvinyl ether	<1.0	ug/L	1.0	1		07/25/21 21:22	110-75-8		
Chloroform	<1.0	ug/L	1.0	1		07/25/21 21:22	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/25/21 21:22	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/25/21 21:22	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:22	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:22	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		07/25/21 21:22	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/25/21 21:22	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:22	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:22	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:22	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:22	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:22	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/25/21 21:22	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 21:22	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/25/21 21:22	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/25/21 21:22	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/25/21 21:22	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/25/21 21:22	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/25/21 21:22	127-18-4		
Toluene	<1.0	ug/L	1.0	1		07/25/21 21:22	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:22	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/25/21 21:22	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		07/25/21 21:22	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		07/25/21 21:22	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		07/25/21 21:22	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		07/25/21 21:22	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	102	%	69-122	1		07/25/21 21:22	460-00-4		
Toluene-d8 (S)	102	%	79-110	1		07/25/21 21:22	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Sample: SW-7		Lab ID: 70179696026		Collected: 07/20/21 13:45		Received: 07/20/21 15:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Surrogates									
1,2-Dichloroethane-d4 (S)	88	%	74-119	1		07/25/21 21:22	17060-07-0		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	87.8	mg/L	1.0	1		07/23/21 13:44			
Alkalinity,Bicarbonate (CaCO3)	87.8	mg/L	1.0	1		07/23/21 13:44			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		07/23/21 13:44			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	9630	mg/L	50.0	1		07/26/21 15:13			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	7730	mg/L	200	100		07/29/21 15:58	16887-00-6		
Sulfate	1160	mg/L	500	100		07/29/21 15:58	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.40	mg/L	0.050	1		07/21/21 03:23	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	0.028J	mg/L	0.050	1		07/21/21 00:22	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.20	mg/L	0.10	1		07/27/21 18:08	7664-41-7		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218936	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70179696002, 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011		

METHOD BLANK:	1103679	Matrix:	Water
Associated Lab Samples:	70179696002, 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	07/25/21 16:20	

LABORATORY CONTROL SAMPLE: 1103680						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.92	92	85-115	

MATRIX SPIKE SAMPLE:		1103681					
Parameter	Units	70180055001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	101	70-130	

MATRIX SPIKE SAMPLE:		1103683					
		70180056001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.3	113	70-130	

SAMPLE DUPLICATE: 1103682

Parameter	Units	70180055001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1103684					
		70180056001	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Mercury	ug/L	<0.20	0.46		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219239	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696013, 70179696014, 70179696015, 70179696016, 70179696017

METHOD BLANK:	1105638	Matrix:	Water

Associated Lab Samples: 70179696013, 70179696014, 70179696015, 70179696016, 70179696017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	07/28/21 12:49	

LABORATORY CONTROL SAMPLE: 1105639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.86	86	85-115	

MATRIX SPIKE SAMPLE: 1105640

Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.85	85	70-130	

MATRIX SPIKE SAMPLE: 1105642

Parameter	Units	70179696014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.86	86	70-130	

SAMPLE DUPLICATE: 1105641

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1105643

Parameter	Units	70179696014 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch: 217256

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70179696002

METHOD BLANK: 1094835

Matrix: Water

Associated Lab Samples: 70179696002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	07/16/21 12:07	
Arsenic	ug/L	<10.0	10.0	07/16/21 12:07	
Cadmium	ug/L	<2.5	2.5	07/16/21 12:07	
Calcium	ug/L	<200	200	07/16/21 12:07	
Chromium	ug/L	<10.0	10.0	07/16/21 12:07	
Iron	ug/L	<100	100	07/16/21 12:07	
Lead	ug/L	<5.0	5.0	07/16/21 12:07	
Magnesium	ug/L	<200	200	07/16/21 12:07	
Potassium	ug/L	<5000	5000	07/16/21 12:07	
Sodium	ug/L	<5000	5000	07/16/21 12:07	

LABORATORY CONTROL SAMPLE: 1094836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	25400	102	85-115	
Arsenic	ug/L	500	491	98	85-115	
Cadmium	ug/L	500	503	101	85-115	
Calcium	ug/L	25000	25500	102	85-115	
Chromium	ug/L	500	502	100	85-115	
Iron	ug/L	12500	12600	101	85-115	
Lead	ug/L	500	510	102	85-115	
Magnesium	ug/L	25000	25200	101	85-115	
Potassium	ug/L	25000	25200	101	85-115	
Sodium	ug/L	25000	25200	101	85-115	

MATRIX SPIKE SAMPLE: 1094838

Parameter	Units	70179201001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	526	10000	11300	108	70-130	
Arsenic	ug/L	<10.0	200	212	106	70-130	
Cadmium	ug/L	<2.5	200	219	109	70-130	
Calcium	ug/L	22500	10000	33000	105	70-130	
Chromium	ug/L	<10.0	200	221	109	70-130	
Iron	ug/L	480	5000	5830	107	70-130	
Lead	ug/L	71.5	200	281	105	70-130	
Magnesium	ug/L	2480	10000	13100	106	70-130	
Potassium	ug/L	<5000	10000	15400	110	70-130	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE SAMPLE: 1094838		70179201001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Sodium	ug/L	13100	10000	23900	108	70-130	

MATRIX SPIKE SAMPLE: 1094840		70179201002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	631	10000	11100	105	70-130	
Arsenic	ug/L	<10.0	200	205	102	70-130	
Cadmium	ug/L	<2.5	200	213	106	70-130	
Calcium	ug/L	12100	10000	21800	97	70-130	
Chromium	ug/L	<10.0	200	213	105	70-130	
Iron	ug/L	987	5000	6120	103	70-130	
Lead	ug/L	96.5	200	299	101	70-130	
Magnesium	ug/L	952	10000	11300	103	70-130	
Potassium	ug/L	<5000	10000	12500	103	70-130	
Sodium	ug/L	<5000	10000	13000	97	70-130	

SAMPLE DUPLICATE: 1094837

Parameter	Units	70179201001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	526	494	6	
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	1.7J		
Calcium	ug/L	22500	22000	2	
Chromium	ug/L	<10.0	3.0J		
Iron	ug/L	480	440	9	
Lead	ug/L	71.5	68.5	4	
Magnesium	ug/L	2480	2420	2	
Potassium	ug/L	<5000	4220J		
Sodium	ug/L	13100	12800	2	

SAMPLE DUPLICATE: 1094839

Parameter	Units	70179201002 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	631	579	9	
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	1.3J		
Calcium	ug/L	12100	11200	8	
Chromium	ug/L	<10.0	2.1J		
Iron	ug/L	987	872	12	
Lead	ug/L	96.5	92.6	4	
Magnesium	ug/L	952	913	4	
Potassium	ug/L	<5000	1970J		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

SAMPLE DUPLICATE: 1094839

Parameter	Units	70179201002 Result	Dup Result	RPD	Qualifiers
Sodium	ug/L	<5000	2830J		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217378	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011

METHOD BLANK: 1095567

Matrix: Water

Associated Lab Samples: 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	07/16/21 10:54	
Arsenic	ug/L	<10.0	10.0	07/16/21 10:54	
Cadmium	ug/L	<2.5	2.5	07/16/21 10:54	
Calcium	ug/L	<200	200	07/16/21 10:54	
Chromium	ug/L	<10.0	10.0	07/16/21 10:54	
Iron	ug/L	<100	100	07/16/21 10:54	
Lead	ug/L	<5.0	5.0	07/16/21 10:54	
Magnesium	ug/L	<200	200	07/16/21 10:54	
Potassium	ug/L	<5000	5000	07/16/21 10:54	
Sodium	ug/L	<5000	5000	07/16/21 10:54	

LABORATORY CONTROL SAMPLE: 1095568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	25200	101	85-115	
Arsenic	ug/L	500	490	98	85-115	
Cadmium	ug/L	500	499	100	85-115	
Calcium	ug/L	25000	25200	101	85-115	
Chromium	ug/L	500	496	99	85-115	
Iron	ug/L	12500	12500	100	85-115	
Lead	ug/L	500	504	101	85-115	
Magnesium	ug/L	25000	24900	100	85-115	
Potassium	ug/L	25000	24800	99	85-115	
Sodium	ug/L	25000	24900	100	85-115	

MATRIX SPIKE SAMPLE: 1095570

Parameter	Units	30429813016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10600	106	70-130	
Arsenic	ug/L	ND	200	205	102	70-130	
Cadmium	ug/L	ND	200	212	106	70-130	
Calcium	ug/L	ND	10000	10600	105	70-130	
Chromium	ug/L	ND	200	211	105	70-130	
Iron	ug/L	ND	5000	5230	105	70-130	
Lead	ug/L	ND	200	206	103	70-130	
Magnesium	ug/L	ND	10000	10500	105	70-130	
Potassium	ug/L	ND	10000	10300	103	70-130	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE SAMPLE:		1095570					
Parameter	Units	30429813016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	ug/L	ND	10000	10800	101	70-130	

MATRIX SPIKE SAMPLE:		1095572					
Parameter	Units	30429813019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10700	107	70-130	
Arsenic	ug/L	ND	200	209	104	70-130	
Cadmium	ug/L	ND	200	209	104	70-130	
Calcium	ug/L	29100	10000	41300	122	70-130	
Chromium	ug/L	ND	200	208	104	70-130	
Iron	ug/L	662	5000	5910	105	70-130	
Lead	ug/L	ND	200	201	100	70-130	
Magnesium	ug/L	15600	10000	26800	112	70-130	
Potassium	ug/L	ND	10000	14200	116	70-130	
Sodium	ug/L	62800	10000	76800	140	70-130	M1

SAMPLE DUPLICATE: 1095569

Parameter	Units	30429813016 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	ND	<200		
Arsenic	ug/L	ND	<10.0		
Cadmium	ug/L	ND	<2.5		
Calcium	ug/L	ND	83.2J		
Chromium	ug/L	ND	<10.0		
Iron	ug/L	ND	<100		
Lead	ug/L	ND	<5.0		
Magnesium	ug/L	ND	<200		
Potassium	ug/L	ND	<5000		
Sodium	ug/L	ND	<5000		

SAMPLE DUPLICATE: 1095571

Parameter	Units	30429813019 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	ND	63.2J		
Arsenic	ug/L	ND	<10.0		
Cadmium	ug/L	ND	<2.5		
Calcium	ug/L	29100	30600	5	
Chromium	ug/L	ND	<10.0		
Iron	ug/L	662	739	11	
Lead	ug/L	ND	<5.0		
Magnesium	ug/L	15600	16300	4	
Potassium	ug/L	ND	2770J		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

SAMPLE DUPLICATE: 1095571

Parameter	Units	30429813019 Result	Dup Result	RPD	Qualifiers
Sodium	ug/L	62800	65600	4	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219123	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696013, 70179696014, 70179696015, 70179696016, 70179696017

METHOD BLANK: 1104981

Matrix: Water

Associated Lab Samples: 70179696013, 70179696014, 70179696015, 70179696016, 70179696017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	07/27/21 19:36	
Arsenic	ug/L	<10.0	10.0	07/27/21 19:36	
Cadmium	ug/L	<2.5	2.5	07/27/21 19:36	
Calcium	ug/L	<200	200	07/27/21 19:36	
Chromium	ug/L	<10.0	10.0	07/27/21 19:36	
Iron	ug/L	<100	100	07/27/21 19:36	
Lead	ug/L	<5.0	5.0	07/27/21 19:36	
Magnesium	ug/L	<200	200	07/27/21 19:36	
Potassium	ug/L	<5000	5000	07/27/21 19:36	
Sodium	ug/L	<5000	5000	07/27/21 19:36	

LABORATORY CONTROL SAMPLE: 1104982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	25100	100	85-115	
Arsenic	ug/L	500	480	96	85-115	
Cadmium	ug/L	500	496	99	85-115	
Calcium	ug/L	25000	24900	100	85-115	
Chromium	ug/L	500	492	98	85-115	
Iron	ug/L	12500	12200	98	85-115	
Lead	ug/L	500	496	99	85-115	
Magnesium	ug/L	25000	25000	100	85-115	
Potassium	ug/L	25000	24700	99	85-115	
Sodium	ug/L	25000	25000	100	85-115	

MATRIX SPIKE SAMPLE: 1104984

Parameter	Units	70180823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<0.20 mg/L	10000	10200	102	70-130	
Arsenic	ug/L	<10.0	200	194	97	70-130	
Cadmium	ug/L	<2.5	200	201	100	70-130	
Calcium	ug/L	7820	10000	17600	98	70-130	
Chromium	ug/L	<10.0	200	198	99	70-130	
Iron	ug/L	0.20 mg/L	5000	5060	97	70-130	
Lead	ug/L	<5.0	200	194	95	70-130	
Magnesium	ug/L	6490	10000	16300	98	70-130	
Potassium	ug/L	<5000	10000	13200	104	70-130	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE SAMPLE:		1104984					
Parameter	Units	70180823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	ug/L	46800	10000	56200	94	70-130	

MATRIX SPIKE SAMPLE:		1104986					
Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	381	10000	10800	104	70-130	
Arsenic	ug/L	<10.0	200	197	98	70-130	
Cadmium	ug/L	<2.5	200	196	98	70-130	
Calcium	ug/L	74900	10000	83500	86	70-130	
Chromium	ug/L	1.3J	200	197	98	70-130	
Iron	ug/L	1370	5000	6290	98	70-130	
Lead	ug/L	<5.0	200	187	93	70-130	
Magnesium	ug/L	18600	10000	28100	95	70-130	
Potassium	ug/L	22400	10000	32900	105	70-130	
Sodium	ug/L	142000	10000	150000	80	70-130	

SAMPLE DUPLICATE: 1104983

Parameter	Units	70180823001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<0.20 mg/L	47.2J		
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	7820	7720	1	
Chromium	ug/L	<10.0	<10.0		
Iron	ug/L	0.20 mg/L	201	0	
Lead	ug/L	<5.0	4.8J		
Magnesium	ug/L	6490	6420	1	
Potassium	ug/L	<5000	2760J		
Sodium	ug/L	46800	46300	1	

SAMPLE DUPLICATE: 1104985

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	381	445	15	
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	74900	75900	1	
Chromium	ug/L	1.3J	1.5J		
Iron	ug/L	1370	1440	5	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	18600	18900	2	
Potassium	ug/L	22400	22700	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

SAMPLE DUPLICATE: 1104985

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Sodium	ug/L	142000	143000	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219676	Analysis Method:	EPA 6010C
QC Batch Method:	EPA 3005A	Analysis Description:	6010 MET Water
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1107717

Matrix: Water

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	<200	200	07/30/21 17:14	
Magnesium	ug/L	<200	200	07/30/21 17:14	

LABORATORY CONTROL SAMPLE: 1107718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	25000	25400	102	80-120	
Magnesium	ug/L	25000	25100	100	80-120	

MATRIX SPIKE SAMPLE: 1107720

Parameter	Units	70180840001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	52700	10000	63500	108	75-125	
Magnesium	ug/L	31600	10000	42600	110	75-125	

SAMPLE DUPLICATE: 1107719

Parameter	Units	70180840001 Result	Dup Result	RPD	Qualifiers
Calcium	ug/L	52700	51800	2	
Magnesium	ug/L	31600	31000	2	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217222	Analysis Method:	EPA 624.1
QC Batch Method:	EPA 624.1	Analysis Description:	624.1 MSV
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70179696001, 70179696002, 70179696003, 70179696004, 70179696005, 70179696006, 70179696007, 70179696008, 70179696009, 70179696010, 70179696011		

METHOD BLANK: 1094749

Matrix: Water

Associated Lab Samples: 70179696001, 70179696002, 70179696003, 70179696004, 70179696005, 70179696006, 70179696007, 70179696008, 70179696009, 70179696010, 70179696011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/12/21 09:18	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/12/21 09:18	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/12/21 09:18	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/12/21 09:18	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/12/21 09:18	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	07/12/21 09:18	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/12/21 09:18	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/12/21 09:18	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	07/12/21 09:18	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	07/12/21 09:18	
2-Chloroethylvinyl ether	ug/L	<1.0	1.0	07/12/21 09:18	
Benzene	ug/L	<1.0	1.0	07/12/21 09:18	
Bromodichloromethane	ug/L	<1.0	1.0	07/12/21 09:18	
Bromoform	ug/L	<1.0	1.0	07/12/21 09:18	
Bromomethane	ug/L	<1.0	1.0	07/12/21 09:18	
Carbon tetrachloride	ug/L	<1.0	1.0	07/12/21 09:18	
Chlorobenzene	ug/L	<1.0	1.0	07/12/21 09:18	
Chloroethane	ug/L	<1.0	1.0	07/12/21 09:18	
Chloroform	ug/L	<1.0	1.0	07/12/21 09:18	
Chloromethane	ug/L	<1.0	1.0	07/12/21 09:18	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	07/12/21 09:18	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/12/21 09:18	
Dibromochloromethane	ug/L	<1.0	1.0	07/12/21 09:18	
Dichlorodifluoromethane	ug/L	<1.0	1.0	07/12/21 09:18	
Ethylbenzene	ug/L	<1.0	1.0	07/12/21 09:18	
Methylene Chloride	ug/L	<1.0	1.0	07/12/21 09:18	
Tetrachloroethene	ug/L	<1.0	1.0	07/12/21 09:18	
Toluene	ug/L	<1.0	1.0	07/12/21 09:18	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	07/12/21 09:18	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/12/21 09:18	
Trichloroethene	ug/L	<1.0	1.0	07/12/21 09:18	
Trichlorofluoromethane	ug/L	<1.0	1.0	07/12/21 09:18	
Vinyl chloride	ug/L	<1.0	1.0	07/12/21 09:18	
Xylene (Total)	ug/L	<1.0	1.0	07/12/21 09:18	
1,2-Dichloroethane-d4 (S)	%	97	74-119	07/12/21 09:18	
4-Bromofluorobenzene (S)	%	102	69-122	07/12/21 09:18	
Toluene-d8 (S)	%	100	79-110	07/12/21 09:18	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

LABORATORY CONTROL SAMPLE: 1094750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	60-140	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethene	ug/L	20	22.5	113	70-130	
1,2-Dichlorobenzene	ug/L	20	21.5	108	65-135	
1,2-Dichloroethane	ug/L	20	17.9	90	70-130	
1,2-Dichloropropane	ug/L	20	21.5	107	35-165	
1,3-Dichlorobenzene	ug/L	20	22.0	110	70-130	
1,4-Dichlorobenzene	ug/L	20	21.9	109	65-135	
2-Chloroethylvinyl ether	ug/L	20	17.9	90	10-225	
Benzene	ug/L	20	21.4	107	65-135	
Bromodichloromethane	ug/L	20	20.1	101	65-135	
Bromoform	ug/L	20	18.2	91	70-130	
Bromomethane	ug/L	20	15.2	76	15-185	
Carbon tetrachloride	ug/L	20	19.4	97	70-130	
Chlorobenzene	ug/L	20	21.5	107	65-135	
Chloroethane	ug/L	20	18.9	95	40-160	
Chloroform	ug/L	20	18.9	94	70-135	
Chloromethane	ug/L	20	17.5	88	10-205	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	57-138	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	25-175	
Dibromochloromethane	ug/L	20	17.3	86	70-135	
Dichlorodifluoromethane	ug/L	20	19.4	97	10-139	
Ethylbenzene	ug/L	20	20.0	100	60-140	
Methylene Chloride	ug/L	20	19.6	98	60-140	
Tetrachloroethene	ug/L	20	21.5	108	65-135	
Toluene	ug/L	20	21.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.5	107	50-150	
Trichloroethene	ug/L	20	20.2	101	65-135	
Trichlorofluoromethane	ug/L	20	19.8	99	50-150	
Vinyl chloride	ug/L	20	19.3	96	5-195	
Xylene (Total)	ug/L	60	63.4	106	67-132	
1,2-Dichloroethane-d4 (S)	%			99	74-119	
4-Bromofluorobenzene (S)	%			106	69-122	
Toluene-d8 (S)	%			99	79-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1095178

1095179

Parameter	Units	70179902003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	20	20	23.8	22.0	119	110	70-130	8	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	19.7	18.5	98	93	40-160	6	
1,1,2-Trichloroethane	ug/L	<1.0	20	20	23.3	21.2	117	106	70-130	9	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1095178 1095179											
Parameter	Units	70179902003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethane	ug/L	<1.0	20	20	21.2	19.9	106	100	70-130	6	
1,1-Dichloroethene	ug/L	<1.0	20	20	25.3	24.9	126	124	50-150	2	
1,2-Dichlorobenzene	ug/L	<1.0	20	20	24.0	22.6	120	113	62-135	6	
1,2-Dichloroethane	ug/L	<1.0	20	20	20.1	18.6	101	93	70-130	8	
1,2-Dichloropropane	ug/L	<1.0	20	20	24.4	23.5	122	118	35-165	3	
1,3-Dichlorobenzene	ug/L	<1.0	20	20	24.7	23.1	124	116	70-130	7	
1,4-Dichlorobenzene	ug/L	<1.0	20	20	24.7	22.9	123	115	65-135	7	
2-Chloroethylvinyl ether	ug/L	<1.0	20	20	<1.0	<1.0	0	0	10-225		M1
Benzene	ug/L	<1.0	20	20	25.8	23.9	129	120	37-151	8	
Bromodichloromethane	ug/L	<1.0	20	20	23.8	22.1	119	111	65-135	7	
Bromoform	ug/L	1.6	20	20	23.4	22.6	109	105	70-130	3	
Bromomethane	ug/L	<1.0	20	20	21.8	23.5	109	117	15-185	8	
Carbon tetrachloride	ug/L	<1.0	20	20	23.5	22.1	117	111	70-130	6	
Chlorobenzene	ug/L	<1.0	20	20	25.6	24.0	128	120	65-135	6	
Chloroethane	ug/L	<1.0	20	20	22.2	20.6	111	103	40-160	8	
Chloroform	ug/L	<1.0	20	20	22.2	20.9	111	104	70-135	6	
Chloromethane	ug/L	<1.0	20	20	21.0	20.2	105	101	10-205	4	
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	20.9	20.0	104	100	57-139	4	
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	23.2	21.8	116	109	25-175	7	
Dibromochloromethane	ug/L	1.4	20	20	21.0	20.0	98	93	70-135	5	
Dichlorodifluoromethane	ug/L	<1.0	20	20	24.0	22.7	120	113	10-139	6	
Ethylbenzene	ug/L	<1.0	20	20	24.6	22.7	123	114	40-160	8	
Methylene Chloride	ug/L	<1.0	20	20	19.3	18.4	96	92	40-160	5	
Tetrachloroethene	ug/L	<1.0	20	20	30.6	28.2	153	141	70-130	8	M1
Toluene	ug/L	<1.0	20	20	25.8	24.0	129	120	70-130	7	
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	21.0	19.4	105	97	70-130	8	
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	23.9	22.2	119	111	50-150	8	
Trichloroethene	ug/L	<1.0	20	20	24.6	22.9	123	115	65-135	7	
Trichlorofluoromethane	ug/L	<1.0	20	20	24.1	23.0	120	115	50-150	5	
Vinyl chloride	ug/L	<1.0	20	20	22.2	21.2	111	106	40-160	5	
Xylene (Total)	ug/L	<1.0	60	60	75.3	70.7	125	118	67-132	6	
1,2-Dichloroethane-d4 (S)	%						96	95	74-119		
4-Bromofluorobenzene (S)	%						103	105	69-122		
Toluene-d8 (S)	%						99	99	79-110		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217812	Analysis Method:	EPA 624.1
QC Batch Method:	EPA 624.1	Analysis Description:	624.1 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696012, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017, 70179696018

METHOD BLANK: 1097905

Matrix: Water

Associated Lab Samples: 70179696012, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017, 70179696018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/14/21 12:09	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/14/21 12:09	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/14/21 12:09	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/14/21 12:09	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/14/21 12:09	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	07/14/21 12:09	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/14/21 12:09	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/14/21 12:09	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	07/14/21 12:09	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	07/14/21 12:09	
2-Chloroethylvinyl ether	ug/L	<1.0	1.0	07/14/21 12:09	
Benzene	ug/L	<1.0	1.0	07/14/21 12:09	
Bromodichloromethane	ug/L	<1.0	1.0	07/14/21 12:09	
Bromoform	ug/L	<1.0	1.0	07/14/21 12:09	
Bromomethane	ug/L	<1.0	1.0	07/14/21 12:09	
Carbon tetrachloride	ug/L	<1.0	1.0	07/14/21 12:09	
Chlorobenzene	ug/L	<1.0	1.0	07/14/21 12:09	
Chloroethane	ug/L	<1.0	1.0	07/14/21 12:09	
Chloroform	ug/L	<1.0	1.0	07/14/21 12:09	
Chloromethane	ug/L	<1.0	1.0	07/14/21 12:09	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	07/14/21 12:09	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/14/21 12:09	
Dibromochloromethane	ug/L	<1.0	1.0	07/14/21 12:09	
Dichlorodifluoromethane	ug/L	<1.0	1.0	07/14/21 12:09	v3
Ethylbenzene	ug/L	<1.0	1.0	07/14/21 12:09	
Methylene Chloride	ug/L	<1.0	1.0	07/14/21 12:09	
Tetrachloroethene	ug/L	<1.0	1.0	07/14/21 12:09	
Toluene	ug/L	<1.0	1.0	07/14/21 12:09	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	07/14/21 12:09	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/14/21 12:09	
Trichloroethene	ug/L	<1.0	1.0	07/14/21 12:09	
Trichlorofluoromethane	ug/L	<1.0	1.0	07/14/21 12:09	
Vinyl chloride	ug/L	<1.0	1.0	07/14/21 12:09	
Xylene (Total)	ug/L	<1.0	1.0	07/14/21 12:09	
1,2-Dichloroethane-d4 (S)	%	98	74-119	07/14/21 12:09	
4-Bromofluorobenzene (S)	%	98	69-122	07/14/21 12:09	
Toluene-d8 (S)	%	99	79-110	07/14/21 12:09	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

LABORATORY CONTROL SAMPLE: 1097906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.5	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	16.4	82	60-140	
1,1,2-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	20	16.3	82	70-130	
1,1-Dichloroethene	ug/L	20	17.4	87	70-130	
1,2-Dichlorobenzene	ug/L	20	19.9	99	65-135	
1,2-Dichloroethane	ug/L	20	17.9	89	70-130	
1,2-Dichloropropane	ug/L	20	20.7	103	35-165	
1,3-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,4-Dichlorobenzene	ug/L	20	19.7	99	65-135	
2-Chloroethylvinyl ether	ug/L	20	12.6	63	10-225	
Benzene	ug/L	20	19.8	99	65-135	
Bromodichloromethane	ug/L	20	19.8	99	65-135	
Bromoform	ug/L	20	18.7	94	70-130	
Bromomethane	ug/L	20	10.8	54	15-185	
Carbon tetrachloride	ug/L	20	16.0	80	70-130	
Chlorobenzene	ug/L	20	20.8	104	65-135	
Chloroethane	ug/L	20	15.0	75	40-160	
Chloroform	ug/L	20	17.8	89	70-135	
Chloromethane	ug/L	20	12.7	63	10-205	
cis-1,2-Dichloroethene	ug/L	20	16.3	81	57-138	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	25-175	
Dibromochloromethane	ug/L	20	17.1	86	70-135	
Dichlorodifluoromethane	ug/L	20	10.4	52	10-139 v3	
Ethylbenzene	ug/L	20	18.2	91	60-140	
Methylene Chloride	ug/L	20	17.0	85	60-140	
Tetrachloroethene	ug/L	20	19.4	97	65-135	
Toluene	ug/L	20	20.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.5	77	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.6	108	50-150	
Trichloroethene	ug/L	20	17.6	88	65-135	
Trichlorofluoromethane	ug/L	20	14.4	72	50-150	
Vinyl chloride	ug/L	20	12.8	64	5-195	
Xylene (Total)	ug/L	60	57.7	96	67-132	
1,2-Dichloroethane-d4 (S)	%			102	74-119	
4-Bromofluorobenzene (S)	%			102	69-122	
Toluene-d8 (S)	%			100	79-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1097907 1097908

Parameter	Units	70179696013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	20	20	18.9	18.8	94	94	70-130	0	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	16.9	16.3	84	82	40-160	3	
1,1,2-Trichloroethane	ug/L	<1.0	20	20	18.8	18.8	94	94	70-130	0	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1097907			1097908									
Parameter	70179696013		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.								
1,1-Dichloroethane	ug/L	<1.0	20	20	17.4	17.5	87	88	70-130	1		
1,1-Dichloroethene	ug/L	<1.0	20	20	19.5	18.7	98	93	50-150	4		
1,2-Dichlorobenzene	ug/L	<1.0	20	20	20.5	19.9	102	99	62-135	3		
1,2-Dichloroethane	ug/L	<1.0	20	20	16.6	16.2	83	81	70-130	3		
1,2-Dichloropropane	ug/L	<1.0	20	20	19.8	19.9	99	99	35-165	1		
1,3-Dichlorobenzene	ug/L	<1.0	20	20	20.6	19.8	103	99	70-130	4		
1,4-Dichlorobenzene	ug/L	<1.0	20	20	21.2	20.9	106	105	65-135	1		
2-Chloroethylvinyl ether	ug/L	<1.0	20	20	5.1	5.2	25	26	10-225	2		
Benzene	ug/L	<1.0	20	20	20.6	20.5	103	102	37-151	0		
Bromodichloromethane	ug/L	<1.0	20	20	18.5	18.8	92	94	65-135	2		
Bromoform	ug/L	<1.0	20	20	17.8	17.4	89	87	70-130	2		
Bromomethane	ug/L	<1.0	20	20	8.7	11.5	43	57	15-185	28		
Carbon tetrachloride	ug/L	<1.0	20	20	19.1	19.3	95	96	70-130	1		
Chlorobenzene	ug/L	<1.0	20	20	21.6	21.3	108	107	65-135	1		
Chloroethane	ug/L	<1.0	20	20	15.9	16.1	79	81	40-160	2		
Chloroform	ug/L	<1.0	20	20	17.8	17.7	89	88	70-135	0		
Chloromethane	ug/L	<1.0	20	20	13.2	13.2	66	66	10-205	0		
cis-1,2-Dichloroethene	ug/L	1.0	20	20	17.6	17.6	83	83	57-139	0		
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	18.7	18.6	94	93	25-175	1		
Dibromochloromethane	ug/L	<1.0	20	20	16.7	16.5	84	83	70-135	1		
Dichlorodifluoromethane	ug/L	<1.0	20	20	13.0	12.5	65	63	10-139	4 v3		
Ethylbenzene	ug/L	<1.0	20	20	19.3	18.9	96	94	40-160	2		
Methylene Chloride	ug/L	<1.0	20	20	15.9	18.3	79	91	40-160	14		
Tetrachloroethene	ug/L	<1.0	20	20	22.9	22.6	115	113	70-130	1		
Toluene	ug/L	<1.0	20	20	20.3	20.6	102	103	70-130	1		
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	17.6	19.4	88	97	70-130	10		
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	19.3	19.2	96	96	50-150	0		
Trichloroethene	ug/L	<1.0	20	20	19.7	19.5	99	97	65-135	1		
Trichlorofluoromethane	ug/L	<1.0	20	20	18.3	17.4	91	87	50-150	5		
Vinyl chloride	ug/L	<1.0	20	20	14.9	14.9	75	75	40-160	0		
Xylene (Total)	ug/L	<1.0	60	60	60.2	60.0	100	100	67-132	0		
1,2-Dichloroethane-d4 (S)	%						99	98	74-119			
4-Bromofluorobenzene (S)	%						102	101	69-122			
Toluene-d8 (S)	%						101	100	79-110			

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch: 219136

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70179696019, 70179696020, 70179696021, 70179696022

METHOD BLANK: 1105086

Matrix: Water

Associated Lab Samples: 70179696019, 70179696020, 70179696021, 70179696022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/23/21 14:19	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/23/21 14:19	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/23/21 14:19	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/23/21 14:19	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/23/21 14:19	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	07/23/21 14:19	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/23/21 14:19	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/23/21 14:19	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	07/23/21 14:19	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	07/23/21 14:19	
2-Chloroethylvinyl ether	ug/L	<1.0	1.0	07/23/21 14:19	
Benzene	ug/L	<1.0	1.0	07/23/21 14:19	
Bromodichloromethane	ug/L	<1.0	1.0	07/23/21 14:19	
Bromoform	ug/L	<1.0	1.0	07/23/21 14:19	
Bromomethane	ug/L	<1.0	1.0	07/23/21 14:19	
Carbon tetrachloride	ug/L	<1.0	1.0	07/23/21 14:19	
Chlorobenzene	ug/L	<1.0	1.0	07/23/21 14:19	
Chloroethane	ug/L	<1.0	1.0	07/23/21 14:19	
Chloroform	ug/L	<1.0	1.0	07/23/21 14:19	
Chloromethane	ug/L	<1.0	1.0	07/23/21 14:19	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	07/23/21 14:19	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/23/21 14:19	
Dibromochloromethane	ug/L	<1.0	1.0	07/23/21 14:19	
Dichlorodifluoromethane	ug/L	<1.0	1.0	07/23/21 14:19	
Ethylbenzene	ug/L	<1.0	1.0	07/23/21 14:19	
Methylene Chloride	ug/L	<1.0	1.0	07/23/21 14:19	
Tetrachloroethene	ug/L	<1.0	1.0	07/23/21 14:19	
Toluene	ug/L	<1.0	1.0	07/23/21 14:19	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	07/23/21 14:19	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/23/21 14:19	
Trichloroethene	ug/L	<1.0	1.0	07/23/21 14:19	
Trichlorofluoromethane	ug/L	<1.0	1.0	07/23/21 14:19	
Vinyl chloride	ug/L	<1.0	1.0	07/23/21 14:19	
Xylene (Total)	ug/L	<1.0	1.0	07/23/21 14:19	
1,2-Dichloroethane-d4 (S)	%	89	74-119	07/23/21 14:19	
4-Bromofluorobenzene (S)	%	100	69-122	07/23/21 14:19	
Toluene-d8 (S)	%	104	79-110	07/23/21 14:19	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

LABORATORY CONTROL SAMPLE: 1105087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	15.8	79	60-140	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	17.5	88	70-130	
1,1-Dichloroethene	ug/L	20	21.7	109	70-130	
1,2-Dichlorobenzene	ug/L	20	19.2	96	65-135	
1,2-Dichloroethane	ug/L	20	15.5	77	70-130	
1,2-Dichloropropane	ug/L	20	20.3	102	35-165	
1,3-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	19.7	99	65-135	
2-Chloroethylvinyl ether	ug/L	20	12.3	62	10-225	
Benzene	ug/L	20	21.6	108	65-135	
Bromodichloromethane	ug/L	20	19.8	99	65-135	
Bromoform	ug/L	20	20.0	100	70-130	
Bromomethane	ug/L	20	19.8	99	15-185	
Carbon tetrachloride	ug/L	20	20.8	104	70-130	
Chlorobenzene	ug/L	20	22.3	111	65-135	
Chloroethane	ug/L	20	17.7	89	40-160	
Chloroform	ug/L	20	18.2	91	70-135	
Chloromethane	ug/L	20	18.5	92	10-205	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	57-138	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	25-175	
Dibromochloromethane	ug/L	20	19.2	96	70-135	
Dichlorodifluoromethane	ug/L	20	15.9	80	10-139	
Ethylbenzene	ug/L	20	21.0	105	60-140	
Methylene Chloride	ug/L	20	20.3	102	60-140	
Tetrachloroethene	ug/L	20	24.4	122	65-135	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	50-150	
Trichloroethene	ug/L	20	20.8	104	65-135	
Trichlorofluoromethane	ug/L	20	19.0	95	50-150	
Vinyl chloride	ug/L	20	17.2	86	5-195	
Xylene (Total)	ug/L	60	65.1	109	67-132	
1,2-Dichloroethane-d4 (S)	%			87	74-119	
4-Bromofluorobenzene (S)	%			102	69-122	
Toluene-d8 (S)	%			103	79-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105088 1105089

Parameter	Units	70181402002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	20	20	19.8	17.6	99	88	70-130	12	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	14.2	13.5	71	67	40-160	5	
1,1,2-Trichloroethane	ug/L	<1.0	20	20	18.2	16.3	91	82	70-130	11	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105088 1105089											
Parameter	Units	70181402002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethane	ug/L	<1.0	20	20	17.7	15.7	89	79	70-130	12	
1,1-Dichloroethene	ug/L	<1.0	20	20	21.9	19.3	110	97	50-150	12	
1,2-Dichlorobenzene	ug/L	<1.0	20	20	18.7	17.3	94	86	62-135	8	
1,2-Dichloroethane	ug/L	<1.0	20	20	15.4	13.6	77	68	70-130	13	M1
1,2-Dichloropropane	ug/L	<1.0	20	20	20.0	18.2	100	91	35-165	9	
1,3-Dichlorobenzene	ug/L	<1.0	20	20	19.3	17.9	97	90	70-130	8	
1,4-Dichlorobenzene	ug/L	<1.0	20	20	19.3	17.6	97	88	65-135	9	
2-Chloroethylvinyl ether	ug/L	<1.0	20	20	11.5	10.5	57	53	10-225	9	
Benzene	ug/L	<1.0	20	20	21.7	19.1	108	96	37-151	13	
Bromodichloromethane	ug/L	<1.0	20	20	19.1	17.5	95	87	65-135	9	
Bromoform	ug/L	<1.0	20	20	18.1	17.2	90	86	70-130	5	
Bromomethane	ug/L	<1.0	20	20	19.5	18.9	98	94	15-185	3	
Carbon tetrachloride	ug/L	<1.0	20	20	20.4	18.3	102	91	70-130	11	
Chlorobenzene	ug/L	<1.0	20	20	22.5	20.2	112	101	65-135	11	
Chloroethane	ug/L	<1.0	20	20	17.5	15.2	88	76	40-160	14	
Chloroform	ug/L	<1.0	20	20	18.0	16.0	90	80	70-135	12	
Chloromethane	ug/L	<1.0	20	20	17.1	15.1	86	76	10-205	13	
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	18.5	16.2	93	81	57-139	14	
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	19.4	17.6	97	88	25-175	10	
Dibromochloromethane	ug/L	<1.0	20	20	18.3	17.0	92	85	70-135	7	
Dichlorodifluoromethane	ug/L	<1.0	20	20	15.2	13.4	76	67	10-139	13	
Ethylbenzene	ug/L	<1.0	20	20	21.1	19.0	106	95	40-160	11	
Methylene Chloride	ug/L	<1.0	20	20	19.8	17.3	99	87	40-160	13	
Tetrachloroethene	ug/L	<1.0	20	20	27.4	25.0	137	125	70-130	9	M1
Toluene	ug/L	<1.0	20	20	20.8	18.5	104	92	70-130	12	
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	22.2	19.6	111	98	70-130	12	
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	18.5	17.0	92	85	50-150	8	
Trichloroethene	ug/L	<1.0	20	20	20.6	18.5	103	93	65-135	11	
Trichlorofluoromethane	ug/L	<1.0	20	20	19.0	16.7	95	84	50-150	13	
Vinyl chloride	ug/L	<1.0	20	20	17.4	15.1	87	76	40-160	14	
Xylene (Total)	ug/L	<1.0	60	60	64.9	59.0	108	98	67-132	9	
1,2-Dichloroethane-d4 (S)	%						86	83	74-119		
4-Bromofluorobenzene (S)	%						103	101	69-122		
Toluene-d8 (S)	%						104	104	79-110		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219152	Analysis Method:	EPA 624.1
QC Batch Method:	EPA 624.1	Analysis Description:	624.1 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1105157 Matrix: Water

Associated Lab Samples: 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/25/21 16:15	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/25/21 16:15	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/25/21 16:15	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/25/21 16:15	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/25/21 16:15	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	07/25/21 16:15	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/25/21 16:15	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/25/21 16:15	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	07/25/21 16:15	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	07/25/21 16:15	
2-Chloroethylvinyl ether	ug/L	<1.0	1.0	07/25/21 16:15	
Benzene	ug/L	<1.0	1.0	07/25/21 16:15	
Bromodichloromethane	ug/L	<1.0	1.0	07/25/21 16:15	
Bromoform	ug/L	<1.0	1.0	07/25/21 16:15	
Bromomethane	ug/L	<1.0	1.0	07/25/21 16:15	
Carbon tetrachloride	ug/L	<1.0	1.0	07/25/21 16:15	
Chlorobenzene	ug/L	<1.0	1.0	07/25/21 16:15	
Chloroethane	ug/L	<1.0	1.0	07/25/21 16:15	
Chloroform	ug/L	<1.0	1.0	07/25/21 16:15	
Chloromethane	ug/L	<1.0	1.0	07/25/21 16:15	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	07/25/21 16:15	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/25/21 16:15	
Dibromochloromethane	ug/L	<1.0	1.0	07/25/21 16:15	
Dichlorodifluoromethane	ug/L	<1.0	1.0	07/25/21 16:15	v3
Ethylbenzene	ug/L	<1.0	1.0	07/25/21 16:15	
Methylene Chloride	ug/L	<1.0	1.0	07/25/21 16:15	
Tetrachloroethene	ug/L	<1.0	1.0	07/25/21 16:15	
Toluene	ug/L	<1.0	1.0	07/25/21 16:15	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	07/25/21 16:15	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/25/21 16:15	
Trichloroethene	ug/L	<1.0	1.0	07/25/21 16:15	
Trichlorofluoromethane	ug/L	<1.0	1.0	07/25/21 16:15	
Vinyl chloride	ug/L	<1.0	1.0	07/25/21 16:15	
Xylene (Total)	ug/L	<1.0	1.0	07/25/21 16:15	
1,2-Dichloroethane-d4 (S)	%	85	74-119	07/25/21 16:15	
4-Bromofluorobenzene (S)	%	102	69-122	07/25/21 16:15	
Toluene-d8 (S)	%	103	79-110	07/25/21 16:15	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

LABORATORY CONTROL SAMPLE: 1105158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.3	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	16.2	81	60-140	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	16.9	85	70-130	
1,1-Dichloroethene	ug/L	20	20.3	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.0	100	65-135	
1,2-Dichloroethane	ug/L	20	15.3	77	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	35-165	
1,3-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,4-Dichlorobenzene	ug/L	20	20.2	101	65-135	
2-Chloroethylvinyl ether	ug/L	20	8.7	44	10-225	
Benzene	ug/L	20	20.6	103	65-135	
Bromodichloromethane	ug/L	20	18.8	94	65-135	
Bromoform	ug/L	20	20.2	101	70-130	
Bromomethane	ug/L	20	22.9	115	15-185	
Carbon tetrachloride	ug/L	20	19.2	96	70-130	
Chlorobenzene	ug/L	20	22.3	112	65-135	
Chloroethane	ug/L	20	16.0	80	40-160	
Chloroform	ug/L	20	17.6	88	70-135	
Chloromethane	ug/L	20	16.2	81	10-205	
cis-1,2-Dichloroethene	ug/L	20	17.9	89	57-138	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	25-175	
Dibromochloromethane	ug/L	20	18.0	90	70-135	
Dichlorodifluoromethane	ug/L	20	15.4	77	10-139 v3	
Ethylbenzene	ug/L	20	20.7	104	60-140	
Methylene Chloride	ug/L	20	19.7	98	60-140	
Tetrachloroethene	ug/L	20	23.3	117	65-135	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.0	95	50-150	
Trichloroethene	ug/L	20	19.7	98	65-135	
Trichlorofluoromethane	ug/L	20	17.0	85	50-150	
Vinyl chloride	ug/L	20	15.1	76	5-195	
Xylene (Total)	ug/L	60	65.2	109	67-132	
1,2-Dichloroethane-d4 (S)	%			84	74-119	
4-Bromofluorobenzene (S)	%			104	69-122	
Toluene-d8 (S)	%			103	79-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105159 1105160

Parameter	Units	70181621001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	20	20	22.2	21.8	111	109	70-130	2	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	16.8	16.7	84	83	40-160	1	
1,1,2-Trichloroethane	ug/L	<1.0	20	20	19.6	18.8	98	94	70-130	4	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1105159	1105160									
Parameter	Units	70181621001		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
		Result	Conc.	Spike	Spike								
1,1-Dichloroethane	ug/L	<1.0	20	20	20	19.8	19.4	99	97	70-130	2		
1,1-Dichloroethene	ug/L	<1.0	20	20	20	24.4	23.3	122	117	50-150	4		
1,2-Dichlorobenzene	ug/L	<1.0	20	20	20	21.0	20.3	105	102	62-135	3		
1,2-Dichloroethane	ug/L	<1.0	20	20	20	16.6	16.5	83	83	70-130	0		
1,2-Dichloropropane	ug/L	<1.0	20	20	20	21.8	21.3	109	107	35-165	2		
1,3-Dichlorobenzene	ug/L	<1.0	20	20	20	21.7	21.2	109	106	70-130	3		
1,4-Dichlorobenzene	ug/L	<1.0	20	20	20	21.7	21.3	109	106	65-135	2		
2-Chloroethylvinyl ether	ug/L	<1.0	20	20	20	10.0	9.7	50	49	10-225	3		
Benzene	ug/L	<1.0	20	20	20	24.3	23.7	121	119	37-151	2		
Bromodichloromethane	ug/L	<1.0	20	20	20	20.6	19.7	103	99	65-135	4		
Bromoform	ug/L	<1.0	20	20	20	19.9	19.6	99	98	70-130	1		
Bromomethane	ug/L	<1.0	20	20	20	28.8	25.7	144	128	15-185	11		
Carbon tetrachloride	ug/L	<1.0	20	20	20	22.8	22.1	114	110	70-130	3		
Chlorobenzene	ug/L	<1.0	20	20	20	24.6	24.5	123	122	65-135	1		
Chloroethane	ug/L	<1.0	20	20	20	19.9	18.8	100	94	40-160	6		
Chloroform	ug/L	<1.0	20	20	20	20.8	20.1	104	100	70-135	3		
Chloromethane	ug/L	<1.0	20	20	20	16.4	15.3	82	76	10-205	7		
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	20	20.6	19.9	103	100	57-139	3		
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	20	21.0	20.5	105	103	25-175	2		
Dibromochloromethane	ug/L	<1.0	20	20	20	19.6	19.5	98	98	70-135	1		
Dichlorodifluoromethane	ug/L	<1.0	20	20	20	14.9	13.8	75	69	10-139	8 v3		
Ethylbenzene	ug/L	<1.0	20	20	20	23.5	23.3	117	116	40-160	1		
Methylene Chloride	ug/L	<1.0	20	20	20	22.1	21.5	110	107	40-160	3		
Tetrachloroethene	ug/L	<1.0	20	20	20	28.4	27.9	142	139	70-130	2 M1		
Toluene	ug/L	2.1	20	20	20	25.4	24.7	117	113	70-130	3		
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	20	24.9	24.5	124	122	70-130	2		
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	20	19.6	19.4	98	97	50-150	1		
Trichloroethene	ug/L	<1.0	20	20	20	23.2	22.4	116	112	65-135	4		
Trichlorofluoromethane	ug/L	<1.0	20	20	20	21.1	20.6	106	103	50-150	3		
Vinyl chloride	ug/L	<1.0	20	20	20	18.6	18.3	93	91	40-160	2		
Xylene (Total)	ug/L	<1.0	60	60	60	73.3	71.7	122	119	67-132	2		
1,2-Dichloroethane-d4 (S)	%							83	83	74-119			
4-Bromofluorobenzene (S)	%							101	102	69-122			
Toluene-d8 (S)	%							104	105	79-110			

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch: 217822 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179696002, 70179696003, 70179696004, 70179696005

METHOD BLANK: 1097943 Matrix: Water
Associated Lab Samples: 70179696002, 70179696003, 70179696004, 70179696005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	07/15/21 10:52	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	<1.0	1.0	07/15/21 10:52	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	1.0	07/15/21 10:52	

LABORATORY CONTROL SAMPLE: 1097944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	23.6	94	85-115	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		3.1			
Alkalinity,Carbonate (CaCO ₃)	mg/L	25	20.4	82	85-115	L2

MATRIX SPIKE SAMPLE: 1097946

Parameter	Units	70179696002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	43.0	50	94.0	102	75-125	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	43.0		75.0			
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	50	19.0	38	75-125	M0

SAMPLE DUPLICATE: 1097945

Parameter	Units	70179696002 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	43.0	43.2	1	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	43.0	43.2	1	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217996	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70179696009, 70179696010, 70179696011, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017		

METHOD BLANK:	1098840	Matrix:	Water
Associated Lab Samples:	70179696009, 70179696010, 70179696011, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	07/16/21 10:44	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	<1.0	1.0	07/16/21 10:44	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	1.0	07/16/21 10:44	

LABORATORY CONTROL SAMPLE:	1098841					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	23.8	95	85-115	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		3.6			
Alkalinity,Carbonate (CaCO ₃)	mg/L	25	20.2	81	85-115	L2

MATRIX SPIKE SAMPLE:	1098843						
Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	368	50	421	104	75-125	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	368		421			
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	50	<1.0	0	75-125	M0

SAMPLE DUPLICATE: 1098842

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	368	371	1	
Alkalinity,Bicarbonate (CaCO3)	mg/L	368	371	1	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218099	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696008

METHOD BLANK: 1099271 Matrix: Water

Associated Lab Samples: 70179696008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	07/16/21 21:12	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	<1.0	1.0	07/16/21 21:12	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	1.0	07/16/21 21:12	

LABORATORY CONTROL SAMPLE: 1099272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	26.1	104	85-115	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		3.6			
Alkalinity,Carbonate (CaCO ₃)	mg/L	25	22.5	90	85-115	

MATRIX SPIKE SAMPLE: 1099274

Parameter	Units	70179696008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	305	50	366	121	75-125	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	305		366			
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	50	<1.0	0	75-125	M1

SAMPLE DUPLICATE: 1099273

Parameter	Units	70179696008 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	305	312	2	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	305	312	2	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218927	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1103646

Matrix: Water

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	07/23/21 12:12	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	<1.0	1.0	07/23/21 12:12	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	1.0	07/23/21 12:12	

LABORATORY CONTROL SAMPLE: 1103647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	25.3	101	85-115	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		3.6			
Alkalinity,Carbonate (CaCO ₃)	mg/L	25	21.7	87	85-115	

MATRIX SPIKE SAMPLE: 1103649

Parameter	Units	70181236003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	88.7	50	137	97	75-125	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	88.7		118			
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	50	18.9	38	75-125	M1

SAMPLE DUPLICATE: 1103648

Parameter	Units	70181236003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	88.7	89.6	1	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	88.7	89.6	1	
Alkalinity,Carbonate (CaCO ₃)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch: 217608 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179696002, 70179696003, 70179696004, 70179696005

METHOD BLANK: 1096803 Matrix: Water
Associated Lab Samples: 70179696002, 70179696003, 70179696004, 70179696005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	2.0J	10.0	07/14/21 15:37	

LABORATORY CONTROL SAMPLE: 1096804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	492	98	85-115	

MATRIX SPIKE SAMPLE: 1096806

Parameter	Units	70179696002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	252	600	814	94	75-125	

MATRIX SPIKE SAMPLE: 1096808

Parameter	Units	70179696003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	164	600	746	97	75-125	

SAMPLE DUPLICATE: 1096805

Parameter	Units	70179696002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	252	258	2	

SAMPLE DUPLICATE: 1096807

Parameter	Units	70179696003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	164	166	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217821	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696008, 70179696009, 70179696010, 70179696011

METHOD BLANK: 1097939 Matrix: Water
Associated Lab Samples: 70179696008, 70179696009, 70179696010, 70179696011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	07/15/21 16:25	

LABORATORY CONTROL SAMPLE: 1097940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	464	93	85-115	

MATRIX SPIKE SAMPLE: 1097942

Parameter	Units	70179696008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	422	600	986	94	75-125	

SAMPLE DUPLICATE: 1097941

Parameter	Units	70179696008 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	422	422	0	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218008	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696013, 70179696014, 70179696015

METHOD BLANK: 1098858 Matrix: Water

Associated Lab Samples: 70179696013, 70179696014, 70179696015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	07/16/21 16:55	

LABORATORY CONTROL SAMPLE: 1098859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	478	96	85-115	

MATRIX SPIKE SAMPLE: 1098861

Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	652	600	1130	79	75-125	

SAMPLE DUPLICATE: 1098860

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	652	646	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218204	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696016, 70179696017

METHOD BLANK: 1100162 Matrix: Water

Associated Lab Samples: 70179696016, 70179696017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	07/19/21 17:11	

LABORATORY CONTROL SAMPLE: 1100163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	516	103	85-115	

MATRIX SPIKE SAMPLE: 1100167

Parameter	Units	70180389001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1270	600	1880	102	75-125	

MATRIX SPIKE SAMPLE: 1100169

Parameter	Units	70180639002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	387	300	674	96	75-125	

SAMPLE DUPLICATE: 1100166

Parameter	Units	70180389001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	1270	1260	0	

SAMPLE DUPLICATE: 1100168

Parameter	Units	70180639002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	387	385	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218920	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696020, 70179696021

METHOD BLANK: 1103634 Matrix: Water

Associated Lab Samples: 70179696020, 70179696021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	07/23/21 16:37	

LABORATORY CONTROL SAMPLE: 1103635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	235	94	85-115	

MATRIX SPIKE SAMPLE: 1103637

Parameter	Units	70180716008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	84.0	300	447	121	75-125	

SAMPLE DUPLICATE: 1103636

Parameter	Units	70180716008 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	85.0	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219105	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1104907 Matrix: Water

Associated Lab Samples: 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<1.0	1.0	07/26/21 14:26	

LABORATORY CONTROL SAMPLE: 1104908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	502	100	85-115	

MATRIX SPIKE SAMPLE: 1104910

Parameter	Units	70181099001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	60.0	300	363	101	75-125	

SAMPLE DUPLICATE: 1104909

Parameter	Units	70181099001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	60.0	63.0	5	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219412	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70179696002, 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017, 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025		

METHOD BLANK: 1106591

Matrix: Water

Associated Lab Samples: 70179696002, 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017, 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	07/27/21 21:16	
Sulfate	mg/L	<5.0	5.0	07/27/21 21:16	

LABORATORY CONTROL SAMPLE: 1106592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	9.8	98	90-110	

MATRIX SPIKE SAMPLE: 1106593

Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	170	100	267	97	90-110	
Sulfate	mg/L	60.0	10	69.1	92	90-110	

MATRIX SPIKE SAMPLE: 1106595

Parameter	Units	70180579001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	<2.0	10	10.7	91	90-110	
Sulfate	mg/L	<5.0	10	12.8	90	90-110	

SAMPLE DUPLICATE: 1106594

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	170	196	14	
Sulfate	mg/L	60.0	59.8	0	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

SAMPLE DUPLICATE: 1106596

Parameter	Units	70180579001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	<2.0	0.69J		
Sulfate	mg/L	<5.0	3.7J		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219413	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696026

METHOD BLANK: 1106597 Matrix: Water

Associated Lab Samples: 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	07/28/21 04:17	
Sulfate	mg/L	<5.0	5.0	07/28/21 04:17	

LABORATORY CONTROL SAMPLE: 1106598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE SAMPLE: 1106599

Parameter	Units	70180661004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	17.7	10	27.1	93	90-110	
Sulfate	mg/L	25.3	10	34.8	95	90-110	

MATRIX SPIKE SAMPLE: 1106601

Parameter	Units	70181310004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	26.0	10	35.3	94	90-110	
Sulfate	mg/L	10.2	10	19.1	90	90-110	

SAMPLE DUPLICATE: 1106600

Parameter	Units	70180661004 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	17.7	17.8	1	
Sulfate	mg/L	25.3	25.6	1	

SAMPLE DUPLICATE: 1106602

Parameter	Units	70181310004 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	26.0	26.0	0	
Sulfate	mg/L	10.2	10.1	0	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	216977	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696002

METHOD BLANK: 1093476 Matrix: Water

Associated Lab Samples: 70179696002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	07/08/21 23:48	

LABORATORY CONTROL SAMPLE: 1093477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1093478

Parameter	Units	70179796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	97	90-110	

MATRIX SPIKE SAMPLE: 1093480

Parameter	Units	70179805001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	98	90-110	

SAMPLE DUPLICATE: 1093479

Parameter	Units	70179796001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1093481

Parameter	Units	70179805001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	216978	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011

METHOD BLANK:	1093482	Matrix:	Water

Associated Lab Samples: 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	07/09/21 00:27	

LABORATORY CONTROL SAMPLE: 1093483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1093484

Parameter	Units	70179781001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	98	90-110	

MATRIX SPIKE SAMPLE: 1093486

Parameter	Units	70179791002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	99	90-110	

SAMPLE DUPLICATE: 1093485

Parameter	Units	70179781001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1093487

Parameter	Units	70179791002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217534	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696013, 70179696014, 70179696015

METHOD BLANK: 1096603 Matrix: Water

Associated Lab Samples: 70179696013, 70179696014, 70179696015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	07/13/21 23:30	

LABORATORY CONTROL SAMPLE: 1096604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 1096605

Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.52	100	90-110	

MATRIX SPIKE SAMPLE: 1096607

Parameter	Units	70180223001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.58	112	90-110	M1

SAMPLE DUPLICATE: 1096606

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1096608

Parameter	Units	70180223001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217766	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696016, 70179696017

METHOD BLANK: 1097778 Matrix: Water

Associated Lab Samples: 70179696016, 70179696017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	07/14/21 22:50	

LABORATORY CONTROL SAMPLE: 1097779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 1097782

Parameter	Units	70180447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	89	90-110	M1

SAMPLE DUPLICATE: 1097783

Parameter	Units	70180447001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	0.046J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218510	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1101803

Matrix: Water

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	07/21/21 00:05	

LABORATORY CONTROL SAMPLE: 1101804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1101805

Parameter	Units	70181127001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	94	90-110	

MATRIX SPIKE SAMPLE: 1101807

Parameter	Units	70181105001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.27	0.5	0.82	110	90-110	

SAMPLE DUPLICATE: 1101806

Parameter	Units	70181127001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1101808

Parameter	Units	70181105001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.27	0.27	0	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	216985	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696002, 70179696003

METHOD BLANK: 1093511 Matrix: Water

Associated Lab Samples: 70179696002, 70179696003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	07/12/21 23:53	

LABORATORY CONTROL SAMPLE: 1093512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1093513

Parameter	Units	70179703001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.9	2.5	5.3	96	90-110	

MATRIX SPIKE SAMPLE: 1093515

Parameter	Units	70179695001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	<0.050	1	90-110	M1

SAMPLE DUPLICATE: 1093514

Parameter	Units	70179703001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.9	2.9	0	

SAMPLE DUPLICATE: 1093516

Parameter	Units	70179695001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.50		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	216986	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011

METHOD BLANK: 1093517

Matrix: Water

Associated Lab Samples: 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	07/13/21 00:43	

LABORATORY CONTROL SAMPLE: 1093518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 1093519

Parameter	Units	70179783001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.056	0.5	0.54	98	90-110	

MATRIX SPIKE SAMPLE: 1093521

Parameter	Units	70179783010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.8	2.5	8.1	53	90-110	M1

SAMPLE DUPLICATE: 1093520

Parameter	Units	70179783001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.056	0.064	14	

SAMPLE DUPLICATE: 1093522

Parameter	Units	70179783010 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.8	6.3	8	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	217541	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696013, 70179696014, 70179696015

METHOD BLANK: 1096635 Matrix: Water

Associated Lab Samples: 70179696013, 70179696014, 70179696015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	07/14/21 03:22	

LABORATORY CONTROL SAMPLE: 1096636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1096637

Parameter	Units	70180318001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.25	2.5	7.5	297	90-110	M1

MATRIX SPIKE SAMPLE: 1096639

Parameter	Units	70179696013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	<0.050	0	90-110	M1

SAMPLE DUPLICATE: 1096638

Parameter	Units	70180318001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.25	0.89		

SAMPLE DUPLICATE: 1096640

Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS
Pace Project No.: 70179696

QC Batch: 217771 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70179696016, 70179696017

METHOD BLANK: 1097800 Matrix: Water

Associated Lab Samples: 70179696016, 70179696017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	07/15/21 01:36	

LABORATORY CONTROL SAMPLE: 1097801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 1097802

Parameter	Units	70180000001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.50	95	90-110	

MATRIX SPIKE SAMPLE: 1097804

Parameter	Units	70180517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	7.5	2.5	9.7	87	90-110	M1

SAMPLE DUPLICATE: 1097803

Parameter	Units	70180000001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1097805

Parameter	Units	70180517001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	7.5	7.4	1	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	218516	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1101831

Matrix: Water

Associated Lab Samples: 70179696020, 70179696021, 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	07/21/21 02:59	

LABORATORY CONTROL SAMPLE: 1101832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 1101833

Parameter	Units	70180913001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.47	90	90-110	

MATRIX SPIKE SAMPLE: 1101835

Parameter	Units	70181021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	17.7	12.5	31.6	111	90-110	M1

SAMPLE DUPLICATE: 1101834

Parameter	Units	70180913001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1101836

Parameter	Units	70181021001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	17.7	18.3	3	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch:	219390	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70179696002, 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017, 70179696020, 70179696021		

METHOD BLANK:	1106306	Matrix:	Water
Associated Lab Samples:	70179696002, 70179696003, 70179696004, 70179696005, 70179696008, 70179696009, 70179696010, 70179696011, 70179696013, 70179696014, 70179696015, 70179696016, 70179696017, 70179696020, 70179696021		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	07/27/21 17:27	

LABORATORY CONTROL SAMPLE:	1106307					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	109	90-110	

MATRIX SPIKE SAMPLE:		1106308					
		70179696013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10.6	10	21.5	109	75-125	

SAMPLE DUPLICATE: 1106309					
Parameter	Units	70179696013 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	10.6	10.2	4	

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QUALITY CONTROL DATA

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

QC Batch: 219392 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

METHOD BLANK: 1106312 Matrix: Water
Associated Lab Samples: 70179696022, 70179696023, 70179696024, 70179696025, 70179696026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	07/27/21 18:01	

LABORATORY CONTROL SAMPLE: 1106313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 1106314

Parameter	Units	70181115005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.2	113	75-125	

SAMPLE DUPLICATE: 1106315

Parameter	Units	70181115005 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALIFIERS

Project: EAST NORTHPORT SA GROUNDWATERS
Pace Project No.: 70179696

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 70179696006

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179696002	EN6_M_7/7/2021	EPA 200.7	217256	EPA 200.7	217302
70179696003	EN6_S_7/7/2021	EPA 200.7	217378	EPA 200.7	217517
70179696004	EN9_M_7/7/2021	EPA 200.7	217378	EPA 200.7	217517
70179696005	CW2_M_7/7/2021	EPA 200.7	217378	EPA 200.7	217517
70179696008	CW-1S_7/8/2021	EPA 200.7	217378	EPA 200.7	217517
70179696009	CW-1M_7/8/2021	EPA 200.7	217378	EPA 200.7	217517
70179696010	CW-4M_7/8/2021	EPA 200.7	217378	EPA 200.7	217517
70179696011	CW-4S_7/8/2021	EPA 200.7	217378	EPA 200.7	217517
70179696013	EN 7-M_7/12/21	EPA 200.7	219123	EPA 200.7	219187
70179696014	EN 1-M_7/12/21	EPA 200.7	219123	EPA 200.7	219187
70179696015	BLIND DUPLICATE_7/12/21	EPA 200.7	219123	EPA 200.7	219187
70179696016	EN10-M_7/13/21	EPA 200.7	219123	EPA 200.7	219187
70179696017	FIELD BLANK	EPA 200.7	219123	EPA 200.7	219187
70179696002	EN6_M_7/7/2021	SM22 2340B	219744		
70179696003	EN6_S_7/7/2021	SM22 2340B	219744		
70179696004	EN9_M_7/7/2021	SM22 2340B	219744		
70179696005	CW2_M_7/7/2021	SM22 2340B	219744		
70179696008	CW-1S_7/8/2021	SM22 2340B	219744		
70179696009	CW-1M_7/8/2021	SM22 2340B	219744		
70179696010	CW-4M_7/8/2021	SM22 2340B	219744		
70179696011	CW-4S_7/8/2021	SM22 2340B	219744		
70179696013	EN 7-M_7/12/21	SM22 2340B	219744		
70179696014	EN 1-M_7/12/21	SM22 2340B	219744		
70179696015	BLIND DUPLICATE_7/12/21	SM22 2340B	219744		
70179696016	EN10-M_7/13/21	SM22 2340B	219744		
70179696017	FIELD BLANK	SM22 2340B	219744		
70179696020	SW-1	SM22 2340B	220500		
70179696021	SW-2	SM22 2340B	220500		
70179696022	SW-3	SM22 2340B	220500		
70179696023	SW-4	SM22 2340B	220500		
70179696024	SW-5	SM22 2340B	220500		
70179696025	SW-6	SM22 2340B	220500		
70179696026	SW-7	SM22 2340B	220500		
70179696020	SW-1	EPA 3005A	219676	EPA 6010C	219710
70179696021	SW-2	EPA 3005A	219676	EPA 6010C	219710
70179696022	SW-3	EPA 3005A	219676	EPA 6010C	219710
70179696023	SW-4	EPA 3005A	219676	EPA 6010C	219710
70179696024	SW-5	EPA 3005A	219676	EPA 6010C	219710
70179696025	SW-6	EPA 3005A	219676	EPA 6010C	219710
70179696026	SW-7	EPA 3005A	219676	EPA 6010C	219710
70179696002	EN6_M_7/7/2021	EPA 245.1	218936	EPA 245.1	219063
70179696003	EN6_S_7/7/2021	EPA 245.1	218936	EPA 245.1	219063
70179696004	EN9_M_7/7/2021	EPA 245.1	218936	EPA 245.1	219063
70179696005	CW2_M_7/7/2021	EPA 245.1	218936	EPA 245.1	219063
70179696008	CW-1S_7/8/2021	EPA 245.1	218936	EPA 245.1	219063
70179696009	CW-1M_7/8/2021	EPA 245.1	218936	EPA 245.1	219063

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179696010	CW-4M_7/8/2021	EPA 245.1	218936	EPA 245.1	219063
70179696011	CW-4S_7/8/2021	EPA 245.1	218936	EPA 245.1	219063
70179696013	EN 7-M_7/12/21	EPA 245.1	219239	EPA 245.1	219344
70179696014	EN 1-M_7/12/21	EPA 245.1	219239	EPA 245.1	219344
70179696015	BLIND DUPLICATE_7/12/21	EPA 245.1	219239	EPA 245.1	219344
70179696016	EN10-M_7/13/21	EPA 245.1	219239	EPA 245.1	219344
70179696017	FIELD BLANK	EPA 245.1	219239	EPA 245.1	219344
70179696001	TRIP BLANK_7/7/2021	EPA 624.1	217222		
70179696002	EN6_M_7/7/2021	EPA 624.1	217222		
70179696003	EN6_S_7/7/2021	EPA 624.1	217222		
70179696004	EN9_M_7/7/2021	EPA 624.1	217222		
70179696005	CW2_M_7/7/2021	EPA 624.1	217222		
70179696006	STORAGE BLANK	EPA 624.1	217222		
70179696007	TRIP BLANK_7/8/2021	EPA 624.1	217222		
70179696008	CW-1S_7/8/2021	EPA 624.1	217222		
70179696009	CW-1M_7/8/2021	EPA 624.1	217222		
70179696010	CW-4M_7/8/2021	EPA 624.1	217222		
70179696011	CW-4S_7/8/2021	EPA 624.1	217222		
70179696012	TRIP BLANK_7/12/21	EPA 624.1	217812		
70179696013	EN 7-M_7/12/21	EPA 624.1	217812		
70179696014	EN 1-M_7/12/21	EPA 624.1	217812		
70179696015	BLIND DUPLICATE_7/12/21	EPA 624.1	217812		
70179696016	EN10-M_7/13/21	EPA 624.1	217812		
70179696017	FIELD BLANK	EPA 624.1	217812		
70179696018	TRIP BLANK	EPA 624.1	217812		
70179696019	TRIP BLANK_7/20/2021	EPA 624.1	219136		
70179696020	SW-1	EPA 624.1	219136		
70179696021	SW-2	EPA 624.1	219136		
70179696022	SW-3	EPA 624.1	219136		
70179696023	SW-4	EPA 624.1	219152		
70179696024	SW-5	EPA 624.1	219152		
70179696025	SW-6	EPA 624.1	219152		
70179696026	SW-7	EPA 624.1	219152		
70179696002	EN6_M_7/7/2021	SM22 2320B	217822		
70179696003	EN6_S_7/7/2021	SM22 2320B	217822		
70179696004	EN9_M_7/7/2021	SM22 2320B	217822		
70179696005	CW2_M_7/7/2021	SM22 2320B	217822		
70179696008	CW-1S_7/8/2021	SM22 2320B	218099		
70179696009	CW-1M_7/8/2021	SM22 2320B	217996		
70179696010	CW-4M_7/8/2021	SM22 2320B	217996		
70179696011	CW-4S_7/8/2021	SM22 2320B	217996		
70179696013	EN 7-M_7/12/21	SM22 2320B	217996		
70179696014	EN 1-M_7/12/21	SM22 2320B	217996		
70179696015	BLIND DUPLICATE_7/12/21	SM22 2320B	217996		
70179696016	EN10-M_7/13/21	SM22 2320B	217996		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179696017	FIELD BLANK	SM22 2320B	217996		
70179696020	SW-1	SM22 2320B	218927		
70179696021	SW-2	SM22 2320B	218927		
70179696022	SW-3	SM22 2320B	218927		
70179696023	SW-4	SM22 2320B	218927		
70179696024	SW-5	SM22 2320B	218927		
70179696025	SW-6	SM22 2320B	218927		
70179696026	SW-7	SM22 2320B	218927		
70179696002	EN6_M_7/7/2021	SM22 2540C	217608		
70179696003	EN6_S_7/7/2021	SM22 2540C	217608		
70179696004	EN9_M_7/7/2021	SM22 2540C	217608		
70179696005	CW2_M_7/7/2021	SM22 2540C	217608		
70179696008	CW-1S_7/8/2021	SM22 2540C	217821		
70179696009	CW-1M_7/8/2021	SM22 2540C	217821		
70179696010	CW-4M_7/8/2021	SM22 2540C	217821		
70179696011	CW-4S_7/8/2021	SM22 2540C	217821		
70179696013	EN 7-M_7/12/21	SM22 2540C	218008		
70179696014	EN 1-M_7/12/21	SM22 2540C	218008		
70179696015	BLIND DUPLICATE_7/12/21	SM22 2540C	218008		
70179696016	EN10-M_7/13/21	SM22 2540C	218204		
70179696017	FIELD BLANK	SM22 2540C	218204		
70179696020	SW-1	SM22 2540C	218920		
70179696021	SW-2	SM22 2540C	218920		
70179696022	SW-3	SM22 2540C	219105		
70179696023	SW-4	SM22 2540C	219105		
70179696024	SW-5	SM22 2540C	219105		
70179696025	SW-6	SM22 2540C	219105		
70179696026	SW-7	SM22 2540C	219105		
70179696002	EN6_M_7/7/2021	EPA 300.0	219412		
70179696003	EN6_S_7/7/2021	EPA 300.0	219412		
70179696004	EN9_M_7/7/2021	EPA 300.0	219412		
70179696005	CW2_M_7/7/2021	EPA 300.0	219412		
70179696008	CW-1S_7/8/2021	EPA 300.0	219412		
70179696009	CW-1M_7/8/2021	EPA 300.0	219412		
70179696010	CW-4M_7/8/2021	EPA 300.0	219412		
70179696011	CW-4S_7/8/2021	EPA 300.0	219412		
70179696013	EN 7-M_7/12/21	EPA 300.0	219412		
70179696014	EN 1-M_7/12/21	EPA 300.0	219412		
70179696015	BLIND DUPLICATE_7/12/21	EPA 300.0	219412		
70179696016	EN10-M_7/13/21	EPA 300.0	219412		
70179696017	FIELD BLANK	EPA 300.0	219412		
70179696020	SW-1	EPA 300.0	219412		
70179696021	SW-2	EPA 300.0	219412		
70179696022	SW-3	EPA 300.0	219412		
70179696023	SW-4	EPA 300.0	219412		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179696024	SW-5	EPA 300.0	219412		
70179696025	SW-6	EPA 300.0	219412		
70179696026	SW-7	EPA 300.0	219413		
70179696002	EN6_M_7/7/2021	EPA 353.2	216985		
70179696003	EN6_S_7/7/2021	EPA 353.2	216985		
70179696004	EN9_M_7/7/2021	EPA 353.2	216986		
70179696005	CW2_M_7/7/2021	EPA 353.2	216986		
70179696008	CW-1S_7/8/2021	EPA 353.2	216986		
70179696009	CW-1M_7/8/2021	EPA 353.2	216986		
70179696010	CW-4M_7/8/2021	EPA 353.2	216986		
70179696011	CW-4S_7/8/2021	EPA 353.2	216986		
70179696013	EN 7-M_7/12/21	EPA 353.2	217541		
70179696014	EN 1-M_7/12/21	EPA 353.2	217541		
70179696015	BLIND DUPLICATE_7/12/21	EPA 353.2	217541		
70179696016	EN10-M_7/13/21	EPA 353.2	217771		
70179696017	FIELD BLANK	EPA 353.2	217771		
70179696020	SW-1	EPA 353.2	218516		
70179696021	SW-2	EPA 353.2	218516		
70179696022	SW-3	EPA 353.2	218516		
70179696023	SW-4	EPA 353.2	218516		
70179696024	SW-5	EPA 353.2	218516		
70179696025	SW-6	EPA 353.2	218516		
70179696026	SW-7	EPA 353.2	218516		
70179696002	EN6_M_7/7/2021	EPA 353.2	216977		
70179696003	EN6_S_7/7/2021	EPA 353.2	216978		
70179696004	EN9_M_7/7/2021	EPA 353.2	216978		
70179696005	CW2_M_7/7/2021	EPA 353.2	216978		
70179696008	CW-1S_7/8/2021	EPA 353.2	216978		
70179696009	CW-1M_7/8/2021	EPA 353.2	216978		
70179696010	CW-4M_7/8/2021	EPA 353.2	216978		
70179696011	CW-4S_7/8/2021	EPA 353.2	216978		
70179696013	EN 7-M_7/12/21	EPA 353.2	217534		
70179696014	EN 1-M_7/12/21	EPA 353.2	217534		
70179696015	BLIND DUPLICATE_7/12/21	EPA 353.2	217534		
70179696016	EN10-M_7/13/21	EPA 353.2	217766		
70179696017	FIELD BLANK	EPA 353.2	217766		
70179696020	SW-1	EPA 353.2	218510		
70179696021	SW-2	EPA 353.2	218510		
70179696022	SW-3	EPA 353.2	218510		
70179696023	SW-4	EPA 353.2	218510		
70179696024	SW-5	EPA 353.2	218510		
70179696025	SW-6	EPA 353.2	218510		
70179696026	SW-7	EPA 353.2	218510		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SA GROUNDWATERS

Pace Project No.: 70179696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179696002	EN6_M_7/7/2021	SM22 4500 NH3 H	219390		
70179696003	EN6_S_7/7/2021	SM22 4500 NH3 H	219390		
70179696004	EN9_M_7/7/2021	SM22 4500 NH3 H	219390		
70179696005	CW2_M_7/7/2021	SM22 4500 NH3 H	219390		
70179696008	CW-1S_7/8/2021	SM22 4500 NH3 H	219390		
70179696009	CW-1M_7/8/2021	SM22 4500 NH3 H	219390		
70179696010	CW-4M_7/8/2021	SM22 4500 NH3 H	219390		
70179696011	CW-4S_7/8/2021	SM22 4500 NH3 H	219390		
70179696013	EN 7-M_7/12/21	SM22 4500 NH3 H	219390		
70179696014	EN 1-M_7/12/21	SM22 4500 NH3 H	219390		
70179696015	BLIND DUPLICATE_7/12/21	SM22 4500 NH3 H	219390		
70179696016	EN10-M_7/13/21	SM22 4500 NH3 H	219390		
70179696017	FIELD BLANK	SM22 4500 NH3 H	219390		
70179696020	SW-1	SM22 4500 NH3 H	219390		
70179696021	SW-2	SM22 4500 NH3 H	219390		
70179696022	SW-3	SM22 4500 NH3 H	219392		
70179696023	SW-4	SM22 4500 NH3 H	219392		
70179696024	SW-5	SM22 4500 NH3 H	219392		
70179696025	SW-6	SM22 4500 NH3 H	219392		
70179696026	SW-7	SM22 4500 NH3 H	219392		

REPORT OF LABORATORY ANALYSIS

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WWW.PACELABS.COM

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEI

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace T.

Section C

Section B

Section A

Required Client Information:

Company: Dvika & Barilucci
Address: 330 Crossways Park Drive
Woodbury, NY 11797
Email: krobins@db-eng.com
Phone: (516)578-5546
Requested Due Date: 5/24/2021

Invoice Information:

Report To: Keith Robins
Copy To:
Purchase Order #:
Project Name: East Northport SA Groundwaters
Project #:

Attention:

Company Name: DVB Engineers and Architects
Address: 330 Crossways Park Drive
Pace Quote:
Pace Project Manager: belly.harrison@pacelabs.com
Pace Profile #: 5278

Regulatory Agency

Regulatory Agency
State / Location
NY

Page: 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX		CODE		COLLECTED				SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Volatile Organics 624	Metals & Hardness	ALK, BICARB ALK, TDS, NO2	NH3, NO3	(Alum, VVM, Alk, NO2)	Chromium, cadmium	Calcium, iron, lead	Magnesium, Manganese, Selenium	Total Kjeldahl Nitrogen / Ammonia	Chlorine, Nitrate	Chloride, Sulfate, TDS	Hardness, sulfate	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

ITEM #	ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
1		Keith Robins / DB		7/8/21		0710		Keith Robins / DB		7/8/21		0710		Y	
2		Keith Robins / DB		7/8/21		0800		Keith Robins / DB		7/8/21		0812		Y	
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Metals = AL, As, Cr, Cd, Fe, Pb, Mg, Hg, K, & Na + Hardness

Provide Custody ID and Chain of Custody to Lab data@db-eng.com

SAMPLER NAME AND SIGNATURE: Keith Robins

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins

DATE Signed: 7/8/2021

TEMP in C: 21.1

Received on: 7/8/21

Ice (Y/N): Y

Sealed (Y/N): Y

Cooler (Y/N): Y

Samples (Y/N): Y



Sample Condition Upon Receipt

Client Name:

D & B

Project

WO#: 70179696

PM: EMH

Due Date: 07/19/21

CLIENT: D&B

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: +0.0

Cooler Temperature(°C): 4.1

Cooler Temperature Corrected(°C): 4.1

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: LH 7/18/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☒ NoDid samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID, Matrix: SL WD OIL		
All containers needing preservation have been checked?	☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with method recommendation?		
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14. Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #		
Residual chlorine strips Lot #		Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes ☐ No ☒ N/A	15.
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



Sample Condition Upon Receipt

WO#: 70179696

Client Name: D & B

Project

PM: EMH

Due Date: 07/19/21

CLIENT: D&B

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: +0.0

Cooler Temperature(°C): 0.2

Cooler Temperature Corrected(°C): 0.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: CH 7/18/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ NoDid samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist [F-LI-C-010] and include with SCUR/COC paperwork.

COMMENTS:				
Chain of Custody Present:	☒ Yes	☐ No	1.	
Chain of Custody Filled Out:	☒ Yes	☐ No	2.	
Chain of Custody Relinquished:	☒ Yes	☐ No	3.	
Sampler Name & Signature on COC:	☐ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☒ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for)	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		10.
Containers Intact:	☒ Yes	☐ No		11.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL, VT, OIL				
All containers needing preservation have been checked?	☒ Yes	☐ No	☐ N/A	13.
pH paper Lot # HCO11002				
All containers needing preservation are found to be in compliance with method recommendation?	☒ Yes	☐ No	☐ N/A	Sample #
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)				
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #				
Residual chlorine strips Lot #				14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☒ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Sample Receiving Non-Conformance Form (NCF)

Date: 7/14/21	Evaluated by: KW
Client: D&B	

Af	WO#: 70179696	ce
V	PM: EMH	Due Date: 07/19/21
	CLIENT: D&B	

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

Received Field blank sample not on COC.

Received Trip blank not on COC.

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:
Client Comments/Instructions:	

WO#: 70179696

PM: EMH Due Date: 07/23/21
CLIENT: D&B

CHAIN-OF-CUSTODY / Analysis
The Chain-of-Custody is a LEGAL DOCUMENT
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions



Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Dvika & Barilucci	Report To:	Keith Robins	Attention:	Keith Robins
Address:	330 Crossways Park Drive	Copy To:		Company Name:	D&B Engineers and Architects
Woodbury, NY 11797		Purchase Order #:		Address:	330 Crossways Park Drive
Email:	krubins@db-eng.com	Project Name:	East Northport Surface Waters	Pace Quote:	
Phone:	(516) 578-5546	Requested Due Date:	7/23/21	Pace Project Manager:	betty.harrison@pacelabs.com
Requested Due Date:		Project #:	5278	Pace Profile #:	5278
Regulatory Agency:		State / Location:		NY	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	PRESERVATIVES										Analyses Test	Y/N	Requested Analysis Filtered (Y/N)														Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				START	END			# OF CONTAINERS	SAMPLE TEMP AT COLLECTION	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Ice (Y/N)	Custody	Sealed Cooler (Y/N)	Samples Intact (Y/N)
Pace de Carolyn B' and Equis delivables Job data to be submitted - eng team	Keith Robins / DB	7/20/21	3:15pm	Keith Robins / DB	7/20/21	3:49	03	W	N	N	N	N
SAMPLER NAME AND SIGNATURE												
PRINT Name of SAMPLER: Keith Robins												
SIGNATURE of SAMPLER: Keith Robins												
DATE Signed: 7/20/2021												

Client Name:

D&B

Project

PM: EMH

Due Date: 07/23/21

CLIENT: D&B

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: +0.0

Cooler Temperature(°C): 3

Cooler Temperature Corrected(°C): .3

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Date and Initials of person examining contents: KW 7/23/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☒ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	10.
Containers Intact:	☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID, Matrix: <u>SL WT OIL</u>		
All containers needing preservation have been checked?	☒ Yes ☐ No ☐ N/A	13.
pH paper Lot #		
All containers needing preservation are found to be in compliance with method recommendation?		
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A		
NAOH>12 Cyanide)		
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #		
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	☐ Yes ☐ No ☒ N/A	15.
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	17.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

August 2, 2021

Elizabeth Harrison
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 70180205
Client Job Number:
Project Number: 70180205
Laboratory Work Order Number: 21G0641

Enclosed are results of analyses for samples received by the laboratory on July 13, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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B285985	10
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Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Elizabeth Harrison

REPORT DATE: 8/2/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70180205

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0641

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 70180205

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EN1-M_7/12/21	21G0641-01	Water		SOP-454 PFAS	
EN7-M_7/12/21	21G0641-02	Water		SOP-454 PFAS	
Blind Duplicate_7/12/21	21G0641-03	Water		SOP-454 PFAS	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SOP-454 PFAS**Qualifications:****PF-16**

Surrogate recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:**d3-NMeFOSAA**

21G0641-02[EN7-M_7/12/21]

M2-4:2FTS

21G0641-02[EN7-M_7/12/21]

M2-8:2FTS

21G0641-02[EN7-M_7/12/21]

M6PFDA

21G0641-02[EN7-M_7/12/21]

M7PFUnA

21G0641-02[EN7-M_7/12/21]

M9PFNA

21G0641-02[EN7-M_7/12/21]

S-26

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:**d5-NEtFOSAA**

21G0641-02[EN7-M_7/12/21]

M2-8:2FTS

B285985-BS1

M2PFTA

21G0641-02[EN7-M_7/12/21], 21G0641-03[Blind Duplicate_7/12/21]

M8FOSA

21G0641-01[EN1-M_7/12/21], 21G0641-02[EN7-M_7/12/21], 21G0641-03[Blind Duplicate_7/12/21]

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**N-MeFOSAA**

S062025-CCV1

Z-01

Internal standard compound <50% average calibration area.

Analyte & Samples(s) Qualified:**M2PFOA**

21G0641-02[EN7-M_7/12/21]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 70180205

Sample Description:

Work Order: 21G0641

Date Received: 7/13/2021

Field Sample #: EN1-M_7/12/21

Sampled: 7/12/2021 15:10

Sample ID: 21G0641-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.9	2.0	0.57	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorobutanesulfonic acid (PFBS)	0.54	2.0	0.32	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluoropentanoic acid (PFPeA)	4.1	2.0	0.66	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorohexanoic acid (PFHxA)	4.4	2.0	0.75	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	1.4	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorodecanoic acid (PFDA)	ND	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorododecanoic acid (PFDoA)	ND	2.0	0.29	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	1.3	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
N-EtFOSAA	ND	2.0	0.93	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
N-MeFOSAA	ND	2.0	0.96	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorotetradecanoic acid (PFTA)	ND	2.0	0.82	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	1.2	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	0.60	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorooctanesulfonamide (FOSA)	ND	2.0	0.44	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorohexanesulfonic acid (PFHxS)	8.4	2.0	0.58	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	1.1	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluoroundecanoic acid (PFUnA)	ND	2.0	0.49	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluoroheptanoic acid (PFHpA)	1.6	2.0	0.62	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorooctanoic acid (PFOA)	4.7	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorooctanesulfonic acid (PFOS)	1.6	2.0	0.38	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC
Perfluorononanoic acid (PFNA)	ND	2.0	0.48	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:10	JFC

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M8FOSA	36.8	*	50-150
M2-4:2FTS	88.1	50-150	S-26
M2PFTA	79.2	50-150	
M2-8:2FTS	117	50-150	
MPFBA	103	50-150	
M3HFPO-DA	97.1	50-150	
M6PFDA	105	50-150	
M3PFBS	111	50-150	
M7PFUnA	97.7	50-150	
M2-6:2FTS	83.6	50-150	
M5PFPeA	104	50-150	
M5PFHxA	104	50-150	
M3PFHxS	111	50-150	
M4PFHpA	99.4	50-150	
M8PFOA	107	50-150	
M8PFOS	105	50-150	
M9PFNA	105	50-150	
MPFDoA	89.2	50-150	
d5-NEtFOSAA	88.9	50-150	
d3-NMeFOSAA	85.4	50-150	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 70180205

Sample Description:

Work Order: 21G0641

Date Received: 7/13/2021

Field Sample #: EN7-M_7/12/21

Sampled: 7/12/2021 11:00

Sample ID: 21G0641-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	57	2.0	0.57	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorobutanesulfonic acid (PFBS)	6.4	2.0	0.32	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluoropentanoic acid (PFPeA)	32	2.0	0.66	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorohexanoic acid (PFHxA)	66	2.0	0.75	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	1.4	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorodecanoic acid (PFDA)	ND	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorododecanoic acid (PFDoA)	ND	2.0	0.29	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	1.3	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
N-EtFOSAA	6.8	2.0	0.93	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
N-MeFOSAA	ND	2.0	0.96	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorotetradecanoic acid (PFTA)	ND	2.0	0.82	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	1.2	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	0.60	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorooctanesulfonamide (FOSA)	ND	2.0	0.44	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorohexanesulfonic acid (PFHxS)	16	2.0	0.58	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.6	2.0	1.1	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluoroundecanoic acid (PFUnA)	ND	2.0	0.49	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluoroheptanoic acid (PFHpA)	31	2.0	0.62	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorooctanoic acid (PFOA)	67	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorooctanesulfonic acid (PFOS)	24	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC
Perfluorononanoic acid (PFNA)	0.96	2.0	0.48	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 7:39	JFC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M8FOSA	16.4	*	50-150	S-26
M2-4:2FTS	169	*	50-150	PF-16
M2PFTA	22.5	*	50-150	S-26
M2-8:2FTS	288	*	50-150	PF-16
MPFBA	101		50-150	
M3HFPO-DA	134		50-150	
M6PFDA	213	*	50-150	PF-16
M3PFBS	64.6		50-150	
M7PFUnA	167	*	50-150	PF-16
M2-6:2FTS	98.1		50-150	
M5PFPeA	68.4		50-150	
M5PFHxA	132		50-150	
M3PFHxS	84.8		50-150	
M4PFHpA	92.4		50-150	
M8PFOA	92.7		50-150	
M8PFOS	93.0		50-150	
M9PFNA	202	*	50-150	PF-16
MPFDoA	97.0		50-150	
d5-NEtFOSAA	202	*	50-150	S-26
d3-NMeFOSAA	184	*	50-150	PF-16

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 70180205

Sample Description:

Work Order: 21G0641

Date Received: 7/13/2021

Field Sample #: Blind Duplicate_7/12/21

Sampled: 7/12/2021 00:00

Sample ID: 21G0641-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.0	2.0	0.57	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorobutanesulfonic acid (PFBS)	0.64	2.0	0.32	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluoropentanoic acid (PFPeA)	4.2	2.0	0.66	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorohexanoic acid (PFHxA)	4.5	2.0	0.75	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	1.4	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorodecanoic acid (PFDA)	ND	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorododecanoic acid (PFDoA)	ND	2.0	0.29	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	1.3	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
N-EtFOSAA	ND	2.0	0.93	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
N-MeFOSAA	ND	2.0	0.96	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorotetradecanoic acid (PFTA)	ND	2.0	0.82	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	1.2	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	0.60	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorooctanesulfonamide (FOSA)	ND	2.0	0.44	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorohexanesulfonic acid (PFHxS)	8.5	2.0	0.58	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	1.1	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluoroundecanoic acid (PFUnA)	ND	2.0	0.49	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluoroheptanoic acid (PFHpA)	1.9	2.0	0.62	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorooctanoic acid (PFOA)	4.6	2.0	0.38	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorooctanesulfonic acid (PFOS)	1.4	2.0	0.38	ng/L	1	J	SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC
Perfluorononanoic acid (PFNA)	ND	2.0	0.48	ng/L	1		SOP-454 PFAS	7/16/21	7/31/21 8:09	JFC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M8FOSA	13.7	*	50-150	S-26
M2-4:2FTS	82.5		50-150	
M2PFTA	30.9	*	50-150	S-26
M2-8:2FTS	112		50-150	
MPFBA	97.0		50-150	
M3HFPO-DA	100		50-150	
M6PFDA	97.3		50-150	
M3PFBS	107		50-150	
M7PFUnA	87.7		50-150	
M2-6:2FTS	81.8		50-150	
M5PFPeA	98.7		50-150	
M5PFHxA	99.0		50-150	
M3PFHxS	101		50-150	
M4PFHpA	88.9		50-150	
M8PFOA	101		50-150	
M8PFOS	102		50-150	
M9PFNA	99.1		50-150	
MPFDoA	71.1		50-150	
d5-NEtFOSAA	79.1		50-150	
d3-NMeFOSAA	78.1		50-150	

Sample Extraction Data**Prep Method: SOP 454-PFAAS Analytical Method: SOP-454 PFAS**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G0641-01 [EN1-M_7/12/21]	B285985	250	1.00	07/16/21
21G0641-02 [EN7-M_7/12/21]	B285985	250	1.00	07/16/21
21G0641-03 [Blind Duplicate_7/12/21]	B285985	250	1.00	07/16/21

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B285985 - SOP 454-PFAAS
Blank (B285985-BLK1)

Prepared: 07/16/21 Analyzed: 07/30/21

Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
N-MeFOSAA	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M8FOSA	39.7		ng/L	40.0		99.3	50-150			
Surrogate: M2-4:2FTS	38.6		ng/L	37.5		103	50-150			
Surrogate: M2PFTA	40.2		ng/L	40.0		100	50-150			
Surrogate: M2-8:2FTS	55.3		ng/L	38.4		144	50-150			
Surrogate: MPFBA	41.7		ng/L	40.0		104	50-150			
Surrogate: M3HFPO-DA	38.6		ng/L	40.0		96.4	50-150			
Surrogate: M6PFDA	45.5		ng/L	40.0		114	50-150			
Surrogate: M3PFBS	40.8		ng/L	37.3		109	50-150			
Surrogate: M7PFUnA	44.4		ng/L	40.0		111	50-150			
Surrogate: M2-6:2FTS	39.2		ng/L	38.0		103	50-150			
Surrogate: M5PFPeA	42.2		ng/L	40.0		105	50-150			
Surrogate: M5PFHxA	42.1		ng/L	40.0		105	50-150			
Surrogate: M3PFHxS	42.6		ng/L	37.9		112	50-150			
Surrogate: M4PFHpA	43.0		ng/L	40.0		107	50-150			
Surrogate: M8PFOA	44.4		ng/L	40.0		111	50-150			
Surrogate: M8PFOS	41.0		ng/L	38.4		107	50-150			
Surrogate: M9PFNA	45.1		ng/L	40.0		113	50-150			
Surrogate: MPFDoA	42.1		ng/L	40.0		105	50-150			
Surrogate: d5-NEtFOSAA	44.7		ng/L	40.0		112	50-150			
Surrogate: d3-NMeFOSAA	44.3		ng/L	40.0		111	50-150			

LCS (B285985-BS1)

Prepared: 07/16/21 Analyzed: 07/30/21

Perfluorobutanoic acid (PFBA)	8.82	2.0	ng/L	10.0		88.2	73-129			
Perfluorobutanesulfonic acid (PFBS)	7.65	2.0	ng/L	8.85		86.4	72-130			
Perfluoropentanoic acid (PFPeA)	8.86	2.0	ng/L	10.0		88.6	72-129			
Perfluorohexanoic acid (PFHxA)	8.94	2.0	ng/L	10.0		89.4	72-129			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.70	2.0	ng/L	9.60		90.6	67-138			
Perfluorodecanoic acid (PFDA)	8.56	2.0	ng/L	10.0		85.6	71-129			
Perfluorododecanoic acid (PFDoA)	9.06	2.0	ng/L	10.0		90.6	72-134			
Perfluoroheptanesulfonic acid (PFHpS)	7.81	2.0	ng/L	9.55		81.8	69-134			
N-EtFOSAA	11.5	2.0	ng/L	10.0		115	61-135			
N-MeFOSAA	11.8	2.0	ng/L	10.0		118	65-136			

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B285985 - SOP 454-PFAAS
LCS (B285985-BS1)

Prepared: 07/16/21 Analyzed: 07/30/21

Perfluorotetradecanoic acid (PFTA)	8.59	2.0	ng/L	10.0		85.9	71-132			
Perfluorotridecanoic acid (PFTrDA)	9.57	2.0	ng/L	10.0		95.7	65-144			
Perfluorodecanesulfonic acid (PFDS)	8.35	2.0	ng/L	9.65		86.5	53-142			
Perfluorooctanesulfonamide (FOSA)	8.93	2.0	ng/L	10.0		89.3	67-137			
Perfluorohexanesulfonic acid (PFHxS)	7.76	2.0	ng/L	9.15		84.8	68-131			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.49	2.0	ng/L	9.50		99.9	64-140			
Perfluoroundecanoic acid (PFUnA)	8.69	2.0	ng/L	10.0		86.9	69-133			
Perfluoroheptanoic acid (PFHpA)	8.42	2.0	ng/L	10.0		84.2	72-130			
Perfluorooctanoic acid (PFOA)	8.09	2.0	ng/L	10.0		80.9	71-133			
Perfluorooctanesulfonic acid (PFOS)	8.19	2.0	ng/L	9.25		88.6	65-140			
Perfluorononanoic acid (PFNA)	8.77	2.0	ng/L	10.0		87.7	69-130			
Surrogate: M8FOSA	37.4		ng/L	40.0		93.5	50-150			
Surrogate: M2-4:2FTS	36.0		ng/L	37.5		95.9	50-150			
Surrogate: M2PFTA	38.1		ng/L	40.0		95.4	50-150			
Surrogate: M2-8:2FTS	59.3		ng/L	38.4		154 *	50-150			S-26
Surrogate: MPFBA	38.6		ng/L	40.0		96.5	50-150			
Surrogate: M3HFPO-DA	36.7		ng/L	40.0		91.7	50-150			
Surrogate: M6PFDA	43.2		ng/L	40.0		108	50-150			
Surrogate: M3PFBS	39.0		ng/L	37.3		105	50-150			
Surrogate: M7PFUnA	41.9		ng/L	40.0		105	50-150			
Surrogate: M2-6:2FTS	37.7		ng/L	38.0		99.1	50-150			
Surrogate: M5PFPeA	39.3		ng/L	40.0		98.3	50-150			
Surrogate: M5PFHxA	39.2		ng/L	40.0		98.1	50-150			
Surrogate: M3PFHxS	38.3		ng/L	37.9		101	50-150			
Surrogate: M4PFHpA	39.7		ng/L	40.0		99.1	50-150			
Surrogate: M8PFOA	41.5		ng/L	40.0		104	50-150			
Surrogate: M8PFOS	40.0		ng/L	38.4		104	50-150			
Surrogate: M9PFNA	41.9		ng/L	40.0		105	50-150			
Surrogate: MPFDoA	38.8		ng/L	40.0		96.9	50-150			
Surrogate: d5-NEtFOSAA	42.3		ng/L	40.0		106	50-150			
Surrogate: d3-NMeFOSAA	40.9		ng/L	40.0		102	50-150			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
PF-16	Surrogate recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
S-26	Surrogate outside of control limits.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side.
	Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Internal standard compound <50% average calibration area.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SOP-454 PFAS in Water</i>	
Perfluorobutanoic acid (PFBA)	NH-P
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluoropentanoic acid (PFPeA)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluoroheptanesulfonic acid (PFHpS)	NH-P
N-EtFOSAA	NH-P
N-MeFOSAA	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P
Perfluorotridecanoic acid (PFTTrDA)	NH-P
Perfluorodecanesulfonic acid (PFDS)	NH-P
Perfluorooctanesulfonamide (FOSA)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

2100641



Face Analytical
www.facelabs.com

State Of Origin: NY

Cert. Needed: ☒ Yes ☐ No

Workorder: 70180205 Workorder Name: EAST NORTHPORT PFAS/1,4 7/12 Owner Received Date: 7/13/2021 Results Requested By: 8/5/2021

Requested Analysis

Pace New England

39 Spruce St.

East Longmeadow, MA 01028

Phone (413) 525-2332

Phone (631) 694-3040

[illegible]

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

	RT	MOI	Units
Perfluorobutanoic acid (PFBA)	2.00	0.350	ng/L
Perfluoropentanoic acid (PFPA)	2.00	0.400	ng/L
Perfluorohexanoic acid (PFHxA)	2.00	0.500	ng/L
Perfluoroheptanoic acid (PFHpA)	2.00	0.250	ng/L
Perfluorooctanoic acid (PFOA)	2.00	0.800	ng/L
Perfluorononanoic acid (PFNA)	2.00	0.250	ng/L
Perfluorodecanoic acid (PFDA)	2.00	0.350	ng/L
Perfluoroundecanoic acid (PFUdA)	2.00	1.10	ng/L
Perfluorododecanoic acid (PFDDA)	2.00	0.500	ng/L
Perfluorotridecanoic Acid (PFTDA)	2.00	1.50	ng/L
Perfluorotetradecanoic acid (PFTeDA)	2.00	0.200	ng/L
Perfluoropentadecanoic acid (PFPeDA)	2.00	0.200	ng/L
Perfluorohexadecanoic acid (PFHxDA)	2.00	0.100	ng/L
Perfluorooctanesulfonic Acid (PFOS)	2.00	0.500	ng/L
Perfluorodecansulfonic acid (PFDS)	2.00	0.500	ng/L
Perfluorooctanesulfonamide (PFOSA)	2.00	4.000	ng/L
4-ethylperfluorooctanesulfonamidoacetic acid (4EFPFOAA)	20.0	1.00	ng/L
4-ethylperfluorooctanesulfonamidoacetic acid (4EFPFOAA)	20.0	1.00	ng/L
6:2 FTS	20.0	2.00	ng/L
6:2 FTS	20.0	2.00	ng/L

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section B

Required Client Information:
 Company: Durka & Barilucci
 Address: 330 Crossways Park Drive
 Woodbury, NY 11797
 Email: krubins@db-eng.com
 Phone: (516) 578-5546
 Fax: (516) 578-5546
 Requested Due Date: 10-24-2021

Required Project Information:
 Report To: Keith Robins
 Copy To:
 Purchase Order #:
 Project Name: East Northport PFAS/1,4 Dioxane
 Project #: 560-9

Invoice Information:
 Attention: Keith Robins
 Company Name: Durka & Barilucci
 Address: 330 Crossways Park Drive
 Woodbury, NY 11797
 Pace Quote:
 Pace Project Manager: belly.harrison@pacelabs.com
 Pace Profile #: 5276

Regulatory Agency:

State / Location:
NY

Section C

Requested Analysis Filtered (Y/N)

ITEM #	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	Residual Chlorine (Y/N)
		START DATE	END DATE				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	EN 4-M - 7/12/21	7/12/21 3:20 PM	7/12/21	G		4										001
2	EN 7-M - 7/12/21	7/12/21 8:02 AM	7/12/21	G		4										002
3	EN 7-M - 7/12/21 (MS)	7/12/21 11:00 AM	7/12/21	G		4										003
4	EN 7-M - 7/12/21 (MS)	7/12/21 11:00 AM	7/12/21	G		4										003
5	Blind Duplicate 7/12/21	7/12/21 11:00 AM	7/12/21	G		4										003
6																
7																
8																
9																
10																
11																
12																

WO#: 70180205

70180205

RELINQUISHED BY / AFFILIATION
 DATE: 7/12/21 TIME: 09:37
Keith Robins / DB

ACCEPTED BY / AFFILIATION
 DATE: 7-13-21 TIME: 9:37
Noranne Saager

ADDITIONAL COMMENTS
Provide coverage 13' and
Equus Veterinary
Send data to: Labdata@dbeng.com

Sample Condition Upon Receipt

Pace Analytical®

Client Name:

Project

WO#: 70180205

PM: EMH

Due Date: 08/05/21

CLIENT: D&B

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: +0.0

Cooler Temperature(°C): 1.7

Cooler Temperature Corrected(°C): 1.7

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: LP 7/13/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ Noincluding Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist [F-LI-C-010] and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for)	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL/WT/OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation?				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14. Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☒ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

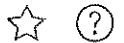
Comments/ Resolution:



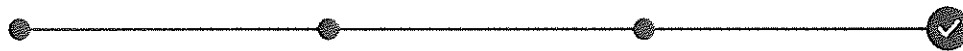
TRACK ANOTHER SHIPMENT

524701919205

ADD NICKNAME



Delivered
Wednesday, July 14, 2021 at 9:43 am



DELIVERED

Signed for by: L.RIOS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

MELVILLE, NY US

TO

EAST LONGMEADOW, MA US

Travel History

TIME ZONE

Local Scan Time



Wednesday, July 14, 2021

9:43 AM	EAST LONGMEADOW, MA	Delivered
7:35 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:26 AM	WINDSOR LOCKS, CT	At local FedEx facility
6:34 AM	EAST GRANBY, CT	At destination sort facility
3:30 AM	NEWARK, NJ	Departed FedEx location

Tuesday, July 13, 2021

10:11 PM	NEWARK, NJ	Departed FedEx location
10:09 PM	NEWARK, NJ	Arrived at FedEx location
8:40 PM	MELVILLE, NY	Left FedEx origin facility
4:56 PM		Shipment information sent to FedEx

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False

Client Pace

Received By UR Date 7-14-21 Time 943

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 5.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name F
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	<u>10</u>	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

August 11, 2021

Elizabeth Harrison
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: NY
Client Job Number:
Project Number: 70180205
Laboratory Work Order Number: 21G0960

Enclosed are results of analyses for samples received by the laboratory on July 17, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Elizabeth Harrison

REPORT DATE: 8/11/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70180205

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0960

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EN1D-M_7/13/2021	21G0960-01	Water		SOP-454 PFAS	
Field Blank	21G0960-02	Water		SOP-454 PFAS	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SOP-454 PFAS**Qualifications:****S-26**

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:**M2-4:2FTS**

21G0960-02[Field Blank]

M2-8:2FTS

21G0960-01[EN1D-M_7/13/2021]

M2PFTA

21G0960-01[EN1D-M_7/13/2021]

M8FOSA

21G0960-01[EN1D-M_7/13/2021]

MPFDoA

21G0960-01[EN1D-M_7/13/2021]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington

Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 21G0960

Date Received: 7/17/2021

Field Sample #: EN1D-M_7/13/2021

Sampled: 7/13/2021 15:30

Sample ID: 21G0960-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	1.8	0.67	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorobutanesulfonic acid (PFBS)	0.57	1.8	0.25	ng/L	1	J	SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluoropentanoic acid (PFPeA)	3.4	1.8	0.35	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorohexanoic acid (PFHxA)	4.4	1.8	0.35	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	0.55	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8	0.44	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.40	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.85	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
N-EtFOSAA	ND	1.8	0.57	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
N-MeFOSAA	ND	1.8	0.69	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.33	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.25	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorodecanesulfonic acid (PFDS)	ND	1.8	0.29	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorooctanesulfonamide (FOSA)	ND	1.8	0.38	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorohexanesulfonic acid (PFHxS)	1.6	1.8	0.31	ng/L	1	J	SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	11	1.8	0.33	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.33	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluoroheptanoic acid (PFHpA)	1.5	1.8	0.31	ng/L	1	J	SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorooctanoic acid (PFOA)	1.7	1.8	0.62	ng/L	1	J	SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.54	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH
Perfluorononanoic acid (PFNA)	ND	1.8	0.31	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:29	BLH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 21G0960

Date Received: 7/17/2021

Field Sample #: Field Blank

Sampled: 7/13/2021 00:00

Sample ID: 21G0960-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	0.66	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.25	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.35	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.34	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	0.54	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8	0.44	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.39	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.83	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
N-EtFOSAA	ND	1.8	0.56	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
N-MeFOSAA	ND	1.8	0.68	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.33	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.25	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorodecanesulfonic acid (PFDS)	ND	1.8	0.29	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorooctanesulfonamide (FOSA)	ND	1.8	0.37	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.30	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	0.49	1.8	0.33	ng/L	1	J	SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.33	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.31	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorooctanoic acid (PFOA)	ND	1.8	0.61	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.53	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH
Perfluorononanoic acid (PFNA)	ND	1.8	0.31	ng/L	1		SOP-454 PFAS	7/29/21	8/5/21 18:36	BLH

Sample Extraction Data**Prep Method: SOP 454-PFAAS Analytical Method: SOP-454 PFAS**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G0960-01 [EN1D-M_7/13/2021]	B286968	277	1.00	07/29/21
21G0960-02 [Field Blank]	B286968	281	1.00	07/29/21

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B286968 - SOP 454-PFAAS
Blank (B286968-BLK1)

Prepared: 07/28/21 Analyzed: 08/05/21

Perfluorobutanoic acid (PFBA)	ND	2.1	ng/L
Perfluorobutanesulfonic acid (PFBS)	ND	2.1	ng/L
Perfluoropentanoic acid (PFPeA)	ND	2.1	ng/L
Perfluorohexanoic acid (PFHxA)	ND	2.1	ng/L
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.1	ng/L
Perfluorodecanoic acid (PFDA)	ND	2.1	ng/L
Perfluorododecanoic acid (PFDoA)	ND	2.1	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1	ng/L
N-EtFOSAA	ND	2.1	ng/L
N-MeFOSAA	ND	2.1	ng/L
Perfluorotetradecanoic acid (PFTA)	ND	2.1	ng/L
Perfluorotridecanoic acid (PFTrDA)	ND	2.1	ng/L
Perfluorodecanesulfonic acid (PFDS)	ND	2.1	ng/L
Perfluorooctanesulfonamide (FOSA)	ND	2.1	ng/L
Perfluorohexanesulfonic acid (PFHxS)	ND	2.1	ng/L
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.1	ng/L
Perfluoroundecanoic acid (PFUnA)	ND	2.1	ng/L
Perfluoroheptanoic acid (PFHpA)	ND	2.1	ng/L
Perfluorooctanoic acid (PFOA)	ND	2.1	ng/L
Perfluorooctanesulfonic acid (PFOS)	ND	2.1	ng/L
Perfluorononanoic acid (PFNA)	ND	2.1	ng/L

LCS (B286968-BS1)

Prepared: 07/28/21 Analyzed: 08/05/21

Perfluorobutanoic acid (PFBA)	7.68	2.0	ng/L	10.2	75.0	73-129
Perfluorobutanesulfonic acid (PFBS)	6.84	2.0	ng/L	9.06	75.5	72-130
Perfluoropentanoic acid (PFPeA)	7.53	2.0	ng/L	10.2	73.5	72-129
Perfluorohexanoic acid (PFHxA)	7.51	2.0	ng/L	10.2	73.3	72-129
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.89	2.0	ng/L	9.83	80.2	67-138
Perfluorodecanoic acid (PFDA)	7.31	2.0	ng/L	10.2	71.3	71-129
Perfluorododecanoic acid (PFDoA)	7.66	2.0	ng/L	10.2	74.8	72-134
Perfluoroheptanesulfonic acid (PFHpS)	8.15	2.0	ng/L	9.78	83.4	69-134
N-EtFOSAA	9.56	2.0	ng/L	10.2	93.3	61-135
N-MeFOSAA	8.60	2.0	ng/L	10.2	83.9	65-136
Perfluorotetradecanoic acid (PFTA)	7.62	2.0	ng/L	10.2	74.4	71-132
Perfluorotridecanoic acid (PFTrDA)	8.05	2.0	ng/L	10.2	78.6	65-144
Perfluorodecanesulfonic acid (PFDS)	6.98	2.0	ng/L	9.88	70.7	53-142
Perfluorooctanesulfonamide (FOSA)	7.63	2.0	ng/L	10.2	74.5	67-137
Perfluorohexanesulfonic acid (PFHxS)	6.98	2.0	ng/L	9.37	74.5	68-131
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.98	2.0	ng/L	9.73	92.3	64-140
Perfluoroundecanoic acid (PFUnA)	7.41	2.0	ng/L	10.2	72.4	69-133
Perfluoroheptanoic acid (PFHpA)	8.28	2.0	ng/L	10.2	80.9	72-130
Perfluorooctanoic acid (PFOA)	7.74	2.0	ng/L	10.2	75.6	71-133
Perfluorooctanesulfonic acid (PFOS)	6.92	2.0	ng/L	9.47	73.0	65-140
Perfluorononanoic acid (PFNA)	8.92	2.0	ng/L	10.2	87.1	69-130

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
S-26	Surrogate outside of control limits.

INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EN1D-M_7/13/2021 (21G0960-01)		Lab File ID: 21G0960-01.d				Analyzed: 08/05/21 18:29			
M8FOSA	110308.4	4.036533	293,447.00	4.036533	38	50 - 150	0.0000	+/-0.50	*
M2-4:2FTS	72036.41	2.57895	139,838.00	2.570733	52	50 - 150	0.0082	+/-0.50	
M2PFTA	65404.9	4.3378	1,149,710.00	4.3378	06	50 - 150	0.0000	+/-0.50	*
M2-8:2FTS	49419.48	3.827067	102,766.00	3.82705	48	50 - 150	0.0000	+/-0.50	*
MPFBA	355003.6	1.108317	458,975.00	1.100017	77	50 - 150	0.0083	+/-0.50	
M3HFPO-DA	164935.4	2.896583	190,794.00	2.896583	86	50 - 150	0.0000	+/-0.50	
M6PFDA	422374.2	3.82755	558,893.00	3.82755	76	50 - 150	0.0000	+/-0.50	
M3PFBS	134843	1.969733	146,227.00	1.96145	92	50 - 150	0.0083	+/-0.50	
M7PFUnA	473242.8	3.970017	823,668.00	3.970017	57	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	52230.7	3.477383	87,794.00	3.477367	59	50 - 150	0.0000	+/-0.50	
M5PFPeA	411107.6	1.7826	464,006.00	1.7743	89	50 - 150	0.0083	+/-0.50	
M5PFHxA	687039.1	2.663233	776,778.00	2.663233	88	50 - 150	0.0000	+/-0.50	
M3PFHxS	95633.71	3.25875	108,195.00	3.250667	88	50 - 150	0.0081	+/-0.50	
M4PFHpA	707286.2	3.219533	782,483.00	3.219533	90	50 - 150	0.0000	+/-0.50	
M8PFOA	563268.5	3.493867	693,629.00	3.493867	81	50 - 150	0.0000	+/-0.50	
M8PFOS	79399.83	3.676117	101,361.00	3.676117	78	50 - 150	0.0000	+/-0.50	
M9PFNA	419181.5	3.67715	509,238.00	3.67715	82	50 - 150	0.0000	+/-0.50	
MPFDoA	326127.9	4.104633	864,980.00	4.104633	38	50 - 150	0.0000	+/-0.50	*
d5-NEtFOSAA	119898.7	3.977483	195,405.00	3.977483	61	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	153261.4	3.9059	225,329.00	3.897717	68	50 - 150	0.0082	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Field Blank (21G0960-02)		Lab File ID: 21G0960-02.d				Analyzed: 08/05/21 18:36			
M8FOSA	232181.1	4.036533	293,447.00	4.036533	79	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	63679.6	2.57895	139,838.00	2.570733	46	50 - 150	0.0082	+/-0.50	*
M2PFTA	1033589	4.3378	1,149,710.00	4.3378	90	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	58518.21	3.827067	102,766.00	3.82705	57	50 - 150	0.0000	+/-0.50	
MPFBA	417880.2	1.100017	458,975.00	1.100017	91	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	197799.2	2.896583	190,794.00	2.896583	104	50 - 150	0.0000	+/-0.50	
M6PFDA	525160.9	3.82755	558,893.00	3.82755	94	50 - 150	0.0000	+/-0.50	
M3PFBS	137896.8	1.969733	146,227.00	1.96145	94	50 - 150	0.0083	+/-0.50	
M7PFUnA	763330.4	3.970017	823,668.00	3.970017	93	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	53067.27	3.477367	87,794.00	3.477367	60	50 - 150	0.0000	+/-0.50	
M5PFPeA	434360.6	1.7826	464,006.00	1.7743	94	50 - 150	0.0083	+/-0.50	
M5PFHxA	727165.3	2.663233	776,778.00	2.663233	94	50 - 150	0.0000	+/-0.50	
M3PFHxS	97216.83	3.25875	108,195.00	3.250667	90	50 - 150	0.0081	+/-0.50	
M4PFHpA	733692.6	3.219533	782,483.00	3.219533	94	50 - 150	0.0000	+/-0.50	
M8PFOA	531120.5	3.493867	693,629.00	3.493867	77	50 - 150	0.0000	+/-0.50	
M8PFOS	92742.71	3.676117	101,361.00	3.676117	91	50 - 150	0.0000	+/-0.50	
M9PFNA	466664	3.67715	509,238.00	3.67715	92	50 - 150	0.0000	+/-0.50	
MPFDoA	804654.6	4.104633	864,980.00	4.104633	93	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	177868.3	3.977483	195,405.00	3.977483	91	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	215340.6	3.9059	225,329.00	3.897717	96	50 - 150	0.0082	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B286968-BLK1)		Lab File ID: B286968-BLK1.d				Analyzed: 08/05/21 18:07			
M8FOSA	330238.1	4.036533	293,447.00	4.036533	113	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	92841.12	2.57895	139,838.00	2.570733	66	50 - 150	0.0082	+/-0.50	
M2PFTA	1425640	4.3378	1,149,710.00	4.3378	124	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	88399.08	3.827067	102,766.00	3.82705	86	50 - 150	0.0000	+/-0.50	
MPFBA	470189.6	1.100017	458,975.00	1.100017	102	50 - 150	0.0000	+/-0.50	
M3HFPO-DA	180723.8	2.896583	190,794.00	2.896583	95	50 - 150	0.0000	+/-0.50	
M6PFDA	670696.2	3.82755	558,893.00	3.82755	120	50 - 150	0.0000	+/-0.50	
M3PFBS	184067.6	1.969733	146,227.00	1.96145	126	50 - 150	0.0083	+/-0.50	
M7PFUnA	975541.6	3.970017	823,668.00	3.970017	118	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	56341.85	3.48535	87,794.00	3.477367	64	50 - 150	0.0080	+/-0.50	
M5PFPeA	565942.9	1.7826	464,006.00	1.7743	122	50 - 150	0.0083	+/-0.50	
M5PFHxA	939701.3	2.663233	776,778.00	2.663233	121	50 - 150	0.0000	+/-0.50	
M3PFHxS	130586.7	3.25875	108,195.00	3.250667	121	50 - 150	0.0081	+/-0.50	
M4PFHpA	956780.3	3.219533	782,483.00	3.219533	122	50 - 150	0.0000	+/-0.50	
M8PFOA	808628.1	3.493867	693,629.00	3.493867	117	50 - 150	0.0000	+/-0.50	
M8PFOS	119750.9	3.676117	101,361.00	3.676117	118	50 - 150	0.0000	+/-0.50	
M9PFNA	599750.1	3.67715	509,238.00	3.67715	118	50 - 150	0.0000	+/-0.50	
MPFDoA	1030669	4.104633	864,980.00	4.104633	119	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	236780.1	3.977483	195,405.00	3.977483	121	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	263091.4	3.9059	225,329.00	3.897717	117	50 - 150	0.0082	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SOP-454 PFAS

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B286968-BS1)			Lab File ID: B286968-BS1.d			Analyzed: 08/05/21 18:00			
M8FOSA	254041.2	4.036533	293,447.00	4.036533	87	50 - 150	0.0000	+/-0.50	
M2-4:2FTS	80969.62	2.57895	139,838.00	2.570733	58	50 - 150	0.0082	+/-0.50	
M2PFTA	941442.2	4.3378	1,149,710.00	4.3378	82	50 - 150	0.0000	+/-0.50	
M2-8:2FTS	66377.37	3.827067	102,766.00	3.82705	65	50 - 150	0.0000	+/-0.50	
MPFBA	418428.6	1.108317	458,975.00	1.100017	91	50 - 150	0.0083	+/-0.50	
M3HFPO-DA	185272.4	2.904767	190,794.00	2.896583	97	50 - 150	0.0082	+/-0.50	
M6PFDA	536746.2	3.82755	558,893.00	3.82755	96	50 - 150	0.0000	+/-0.50	
M3PFBS	143538.5	1.969733	146,227.00	1.96145	98	50 - 150	0.0083	+/-0.50	
M7PFUnA	764166.9	3.970017	823,668.00	3.970017	93	50 - 150	0.0000	+/-0.50	
M2-6:2FTS	48633.78	3.485367	87,794.00	3.477367	55	50 - 150	0.0080	+/-0.50	
M5PFPeA	440388.6	1.7826	464,006.00	1.7743	95	50 - 150	0.0083	+/-0.50	
M5PFHxA	745163.3	2.672333	776,778.00	2.663233	96	50 - 150	0.0091	+/-0.50	
M3PFHxS	96943.95	3.25875	108,195.00	3.250667	90	50 - 150	0.0081	+/-0.50	
M4PFHpA	755772.3	3.227617	782,483.00	3.219533	97	50 - 150	0.0081	+/-0.50	
M8PFOA	628052.5	3.493867	693,629.00	3.493867	91	50 - 150	0.0000	+/-0.50	
M8PFOS	93387.73	3.676117	101,361.00	3.676117	92	50 - 150	0.0000	+/-0.50	
M9PFNA	478457.6	3.67715	509,238.00	3.67715	94	50 - 150	0.0000	+/-0.50	
MPFDoA	705721.8	4.104633	864,980.00	4.104633	82	50 - 150	0.0000	+/-0.50	
d5-NEtFOSAA	174302.3	3.977483	195,405.00	3.977483	89	50 - 150	0.0000	+/-0.50	
d3-NMeFOSAA	212276.8	3.9059	225,329.00	3.897717	94	50 - 150	0.0082	+/-0.50	

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SOP-454 PFAS in Water</i>	
Perfluorobutanoic acid (PFBA)	NH-P
Perfluorobutanesulfonic acid (PFBS)	NH-P
Perfluoropentanoic acid (PFPeA)	NH-P
Perfluorohexanoic acid (PFHxA)	NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH-P
Perfluorodecanoic acid (PFDA)	NH-P
Perfluorododecanoic acid (PFDoA)	NH-P
Perfluoroheptanesulfonic acid (PFHpS)	NH-P
N-EtFOSAA	NH-P
N-MeFOSAA	NH-P
Perfluorotetradecanoic acid (PFTA)	NH-P
Perfluorotridecanoic acid (PFTTrDA)	NH-P
Perfluorodecanesulfonic acid (PFDS)	NH-P
Perfluorooctanesulfonamide (FOSA)	NH-P
Perfluorohexanesulfonic acid (PFHxS)	NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH-P
Perfluoroundecanoic acid (PFUnA)	NH-P
Perfluoroheptanoic acid (PFHpA)	NH-P
Perfluorooctanoic acid (PFOA)	NH-P
Perfluorooctanesulfonic acid (PFOS)	NH-P
Perfluorononanoic acid (PFNA)	NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY

Cert. Needed: ☒ Yes ☐ No

Workorder: 70180205 Workorder Name: EAST NORTHPORT PFAS/1.4 7/12

Results Requested By: 8/6/2021

Report To

Subcontract to

Elizabeth Harrison
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Preserved Containers

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	MA25203
1	ENID-M_7/12/2021	PS	7/12/2021 15:10	70180205001	Water	1
2	ENID-M_7/12/2021	RQS	7/12/2021 11:00	70180205002	Water	1
3	ENID-M_7/12/2021	PS	7/12/2021 00:00	70180205003	Water	1
4	ENID-M_7/13/2021	PS	7/13/2021 15:30	70180205004	Water	1
5	FIELD BLANK	PS	7/13/2021 00:00	70180205005	Water	1

PFAS - ISOTOPE DILUTION (454)

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	<i>[Signature]</i>	7/16/21 18:00	<i>[Signature]</i>	7/17/21 10:00
2				
3				

Cooler Temperature on Receipt 3.3 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

2160960





TRACK ANOTHER SHIPMENT

524701920768

ADD NICKNAME



Delivered
Saturday, July 17, 2021 at 10:26 am



DELIVERED

Signed for by: R.RAI

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

MELVILLE, NY US

TO

EAST LONGMEADOW, MA US

Travel History

TIME ZONE

Local Scan Time



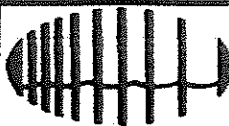
Saturday, July 17, 2021

10:26 AM	EAST LONGMEADOW, MA	Delivered
8:40 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
8:25 AM	WINDSOR LOCKS, CT	At local FedEx facility
6:51 AM	EAST GRANBY, CT	At destination sort facility
3:36 AM	MEMPHIS, TN	Departed FedEx location
12:01 AM	MEMPHIS, TN	Arrived at FedEx location

Friday, July 16, 2021

8:04 PM	MELVILLE, NY	Left FedEx origin facility
4:50 PM		Shipment information sent to FedEx
5:45 PM	MELVILLE, NY	Picked up

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False

Client Pace

Received By map Date 7/17 Time 1026

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 5.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name F
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? f

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>4</u>	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

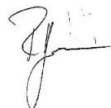
Laboratory Job ID: 480-187180-1

Client Project/Site: EAST NORTHPORT PFAS/1,4 7/12

For:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, New York 11747

Attn: Betty Harrison



Authorized for release by:
7/23/2021 12:45:59 PM

Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

LINKS

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results through

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Job ID: 480-187180-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-187180-1

Comments

No additional comments.

Receipt

The samples were received on 7/14/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples EM7_M_7/12/21 (480-187180-2), EM7_M_7/12/21 MS (480-187180-2[MS]) and EM7_M_7/12/21 MSD (480-187180-2[MSD]) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

Organic Prep

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

Detection Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Client Sample ID: EN1-M_7/12/21

Lab Sample ID: 480-187180-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.19	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: EM7_M_7/12/21

Lab Sample ID: 480-187180-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	16	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: BLIND DUPLICATE_7/12/21

Lab Sample ID: 480-187180-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.21		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Client Sample ID: EN1-M_7/12/21

Lab Sample ID: 480-187180-1

Date Collected: 07/12/21 15:10

Matrix: Water

Date Received: 07/14/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.19	J	0.20	0.10	ug/L		07/15/21 17:22	07/20/21 15:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	25		15 - 110				07/15/21 17:22	07/20/21 15:26	1

Client Sample ID: EM7-M_7/12/21

Lab Sample ID: 480-187180-2

Date Collected: 07/12/21 11:00

Matrix: Water

Date Received: 07/14/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	16	E	0.20	0.10	ug/L		07/15/21 17:22	07/20/21 14:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	22		15 - 110				07/15/21 17:22	07/20/21 14:39	1

Client Sample ID: BLIND DUPLICATE_7/12/21

Lab Sample ID: 480-187180-3

Date Collected: 07/12/21 00:00

Matrix: Water

Date Received: 07/14/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.21		0.20	0.10	ug/L		07/15/21 17:22	07/20/21 15:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	22		15 - 110				07/15/21 17:22	07/20/21 15:49	1

Isotope Dilution Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE					
		(15-110)					
480-187180-1	EN1-M_7/12/21	25					
480-187180-2	EM7_M_7/12/21	22					
480-187180-2 MS	EM7_M_7/12/21 MS	24					
480-187180-2 MSD	EM7_M_7/12/21 MSD	23					
480-187180-3	BLIND DUPLICATE_7/12/21	22					
LCS 480-589264/2-A	Lab Control Sample	24					
MB 480-589264/1-A	Method Blank	27					

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-589264/1-A

Matrix: Water

Analysis Batch: 589706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		07/15/21 17:22	07/20/21 12:20	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				07/15/21 17:22	07/20/21 12:20	1

Lab Sample ID: LCS 480-589264/2-A

Matrix: Water

Analysis Batch: 589706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 589264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.05		ug/L		105	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	24		15 - 110				

Lab Sample ID: 480-187180-2 MS

Matrix: Water

Analysis Batch: 589706

Client Sample ID: EM7_M_7/12/21 MS

Prep Type: Total/NA

Prep Batch: 589264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16	E	1.00	16.5	E 4	ug/L		92	40 - 140
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	24		15 - 110						

Lab Sample ID: 480-187180-2 MSD

Matrix: Water

Analysis Batch: 589706

Client Sample ID: EM7_M_7/12/21 MSD

Prep Type: Total/NA

Prep Batch: 589264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	16	E	1.00	17.1	E 4	ug/L		145	40 - 140	3	20
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8	23		15 - 110								

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

GC/MS Semi VOA

Prep Batch: 589264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187180-1	EN1-M_7/12/21	Total/NA	Water	3510C	
480-187180-2	EM7_M_7/12/21	Total/NA	Water	3510C	
480-187180-3	BLIND DUPLICATE_7/12/21	Total/NA	Water	3510C	
MB 480-589264/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-589264/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-187180-2 MS	EM7_M_7/12/21 MS	Total/NA	Water	3510C	
480-187180-2 MSD	EM7_M_7/12/21 MSD	Total/NA	Water	3510C	

Analysis Batch: 589706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187180-1	EN1-M_7/12/21	Total/NA	Water	8270D SIM ID	589264
480-187180-2	EM7_M_7/12/21	Total/NA	Water	8270D SIM ID	589264
480-187180-3	BLIND DUPLICATE_7/12/21	Total/NA	Water	8270D SIM ID	589264
MB 480-589264/1-A	Method Blank	Total/NA	Water	8270D SIM ID	589264
LCS 480-589264/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	589264
480-187180-2 MS	EM7_M_7/12/21 MS	Total/NA	Water	8270D SIM ID	589264
480-187180-2 MSD	EM7_M_7/12/21 MSD	Total/NA	Water	8270D SIM ID	589264

Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Client Sample ID: EN1-M_7/12/21

Lab Sample ID: 480-187180-1

Date Collected: 07/12/21 15:10

Matrix: Water

Date Received: 07/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			589264	07/15/21 17:22	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	589706	07/20/21 15:26	IMZ	TAL BUF

Client Sample ID: EM7_M_7/12/21

Lab Sample ID: 480-187180-2

Date Collected: 07/12/21 11:00

Matrix: Water

Date Received: 07/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			589264	07/15/21 17:22	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	589706	07/20/21 14:39	IMZ	TAL BUF

Client Sample ID: BLIND DUPLICATE_7/12/21

Lab Sample ID: 480-187180-3

Date Collected: 07/12/21 00:00

Matrix: Water

Date Received: 07/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			589264	07/15/21 17:22	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	589706	07/20/21 15:49	IMZ	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

1

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Method Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NORTHPORT PFAS/1,4 7/12

Job ID: 480-187180-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187180-1	EN1-M_7/12/21	Water	07/12/21 15:10	07/14/21 10:00
480-187180-2	EM7_M_7/12/21	Water	07/12/21 11:00	07/14/21 10:00
480-187180-2 MS	EM7_M_7/12/21 MS	Water	07/12/21 11:00	07/14/21 10:00
480-187180-2 MSD	EM7_M_7/12/21 MSD	Water	07/12/21 11:00	07/14/21 10:00
480-187180-3	BLIND DUPLICATE_7/12/21	Water	07/12/21 00:00	07/14/21 10:00

Chain of Custody

PASI New York Laboratory



Workorder: 70180205

Workorder Name: EAST NORTHPORT PFAS/1,4 7/12

Results Requested By: 8/5/2021



Report / Invoice To		Subcontract To		Requested Analysis										
Elizabeth Harrison Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: betty.harrison@pacelabs.com		Test America - Buffalo 10 Hazelwood Drive Amherst, NY 14228 P.O. 70180205EMH												
State of Sample Origin: NY				1,4-DIOXANE BY 8270 (SIM) 480-187180 Chain of Custody										
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers									
1	EN1-M_7/12/21	7/12/2021 15:10	70180205001	Water	Unpreserved									
2	EM7-M_7/12/21	7/12/2021 11:00	70180205002	Water										
3	BLIND DUPLICATE_7/12/21	7/12/2021 00:00	70180205003	Water										
4														
5														
LAB USE ONLY														
HS/MSD														
Comments														
Transfers		Released By		Received By		Date/Time		LEVEL IV (CAT B) PKG NEEDED FOR THIS PROJECT AS WELL AS A NY EQUIS EDD						
1		Elizabeth Harrison		C. Harrison		7/12/21								
2														
3														
Cooler Temperature on Receipt 25 °C														
Custody Seal				Y or		Received on Ice		Y or		Samples Intact		Y or		

Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 480-187180-1

Login Number: 187180

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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

ANALYTICAL REPORT

Job Number: 480-187345-1

Job Description: EAST NOTHPORT PFAS/1,4 7/12

For:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747

Attention: Betty Harrison



Approved for release.
Rebecca M Jones
Project Management Assistant I
7/23/2021 4:15 PM

Designee for
John R Schove, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9838
John.Schove@Eurofinset.com
07/23/2021

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive, Amherst, NY 14228-2298

Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



Job Narrative
480-187345-1

Comments

No additional comments.

Receipt

The samples were received on 7/16/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS Semi VOA

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

Organic Prep

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

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187345-1	ENID-M_7/13/2021	Water	07/13/21 15:30	07/16/21 10:00
480-187345-2	FIELD BLANK	Water	07/13/21 00:00	07/16/21 10:00

Detection Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Client Sample ID: ENID-M_7/13/2021

Lab Sample ID: 480-187345-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.18	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-187345-2

No Detections.

Method Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Client Sample ID: ENID-M_7/13/2021

Lab Sample ID: 480-187345-1

Date Collected: 07/13/21 15:30

Matrix: Water

Date Received: 07/16/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.20	0.10	ug/L		07/19/21 15:02	07/21/21 00:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	20		15 - 110				07/19/21 15:02	07/21/21 00:55	1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-187345-2

Date Collected: 07/13/21 00:00

Matrix: Water

Date Received: 07/16/21 10:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		07/19/21 15:02	07/21/21 01:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	22		15 - 110				07/19/21 15:02	07/21/21 01:19	1

Isotope Dilution Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-187345-1	ENID-M_7/13/2021	20
480-187345-2	FIELD BLANK	22
LCS 480-589601/2-A	Lab Control Sample	24
LCSD 480-589601/3-A	Lab Control Sample Dup	34
MB 480-589601/1-A	Method Blank	33

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-589601/1-A
Matrix: Water
Analysis Batch: 589706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		07/19/21 15:02	07/20/21 19:48	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				07/19/21 15:02	07/20/21 19:48	1

Lab Sample ID: LCS 480-589601/2-A
Matrix: Water
Analysis Batch: 589706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589601

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane			1.00	1.03		ug/L		103	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8	24		15 - 110						

Lab Sample ID: LCSD 480-589601/3-A
Matrix: Water
Analysis Batch: 589706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 589601

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD Limit
1,4-Dioxane			1.00	1.05		ug/L		105	40 - 140	2 20
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits							
1,4-Dioxane-d8	34		15 - 110							

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

GC/MS Semi VOA

Prep Batch: 589601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187345-1	ENID-M_7/13/2021	Total/NA	Water	3510C	
480-187345-2	FIELD BLANK	Total/NA	Water	3510C	
MB 480-589601/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-589601/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-589601/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 589706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-589601/1-A	Method Blank	Total/NA	Water	8270D SIM ID	589601
LCS 480-589601/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	589601
LCSD 480-589601/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	589601

Analysis Batch: 589707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187345-1	ENID-M_7/13/2021	Total/NA	Water	8270D SIM ID	589601
480-187345-2	FIELD BLANK	Total/NA	Water	8270D SIM ID	589601

Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Client Sample ID: ENID-M_7/13/2021

Lab Sample ID: 480-187345-1

Date Collected: 07/13/21 15:30

Matrix: Water

Date Received: 07/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			589601	07/19/21 15:02	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	589707	07/21/21 00:55	IMZ	TAL BUF

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-187345-2

Date Collected: 07/13/21 00:00

Matrix: Water

Date Received: 07/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			589601	07/19/21 15:02	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	589707	07/21/21 01:19	IMZ	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: EAST NOTHPORT PFAS/1,4 7/12

Job ID: 480-187345-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Shipping and Receiving Documents

Chain of Custody

PASI New York Laboratory



Workorder: 70180205

Workorder Name: EAST NORTHPORT PFAS/1,4 7/12

Results Requested By: 8/6/2021



Report / Invoice To		Subcontract To		Requested Analysis	
Elizabeth Harrison Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: betty.harrison@pacelabs.com		Test America-Buffalo 10 Hazelwood Drive Amherst, NY 14228		1,4-DIOXANE BY 8270 (SIM)	
State of Sample Origin: NY		P.O. 70180205EMH_2			
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers
1					Unpreserved
2					
3					
4	ENID-M_7/13/2021	7/13/2021 15:30	70180205004	Water	
5	FIELD BLANK	7/13/2021 00:00	70180205005	Water	
LAB USE ONLY					
480-187345 Chain of Custody					
Transfers		Released By	Date/Time	Received By	Date/Time
1		Marianne Saager	7.15.21 1800	C. White	7/16/21 1000
2					
3					
Cooler Temperature on Receipt 7.6 °C					
Cooler Temperature on Receipt		7.6 °C	Custody Seal	Y or	Received on Ice
				Y or	Samples Intact
				Y or	Y or
Comments					

Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 480-187345-1

Login Number: 187345

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

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