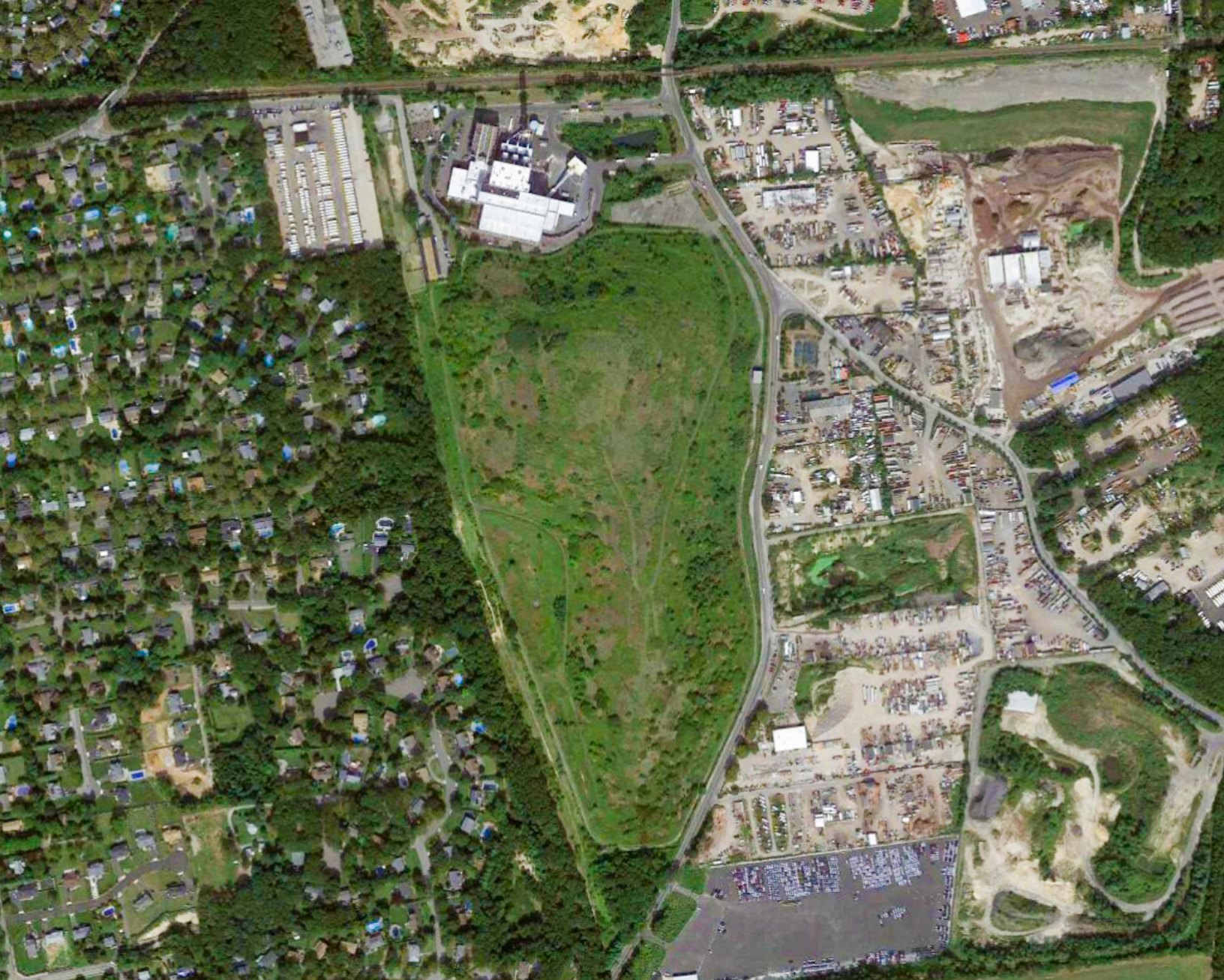




TOWN OF HUNTINGTON - EAST NORTHPORT LANDFILL  
GROUNDWATER AND SURFACE WATER MONITORING REPORT  
FIRST SEMI-ANNUAL REPORT 2022



D&B ENGINEERS  
AND ARCHITECTS

AUGUST 2022

**GROUNDWATER AND SURFACE WATER MONITORING PROGRAM**

**FIRST SEMI-ANNUAL RESULTS OF 2022**

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

*Prepared for:*

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**AUGUST 2022**



**EAST NORTHPORT LANDFILL  
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM  
FIRST SEMI-ANNUAL RESULTS OF 2022**

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## **1.0 INTRODUCTION**

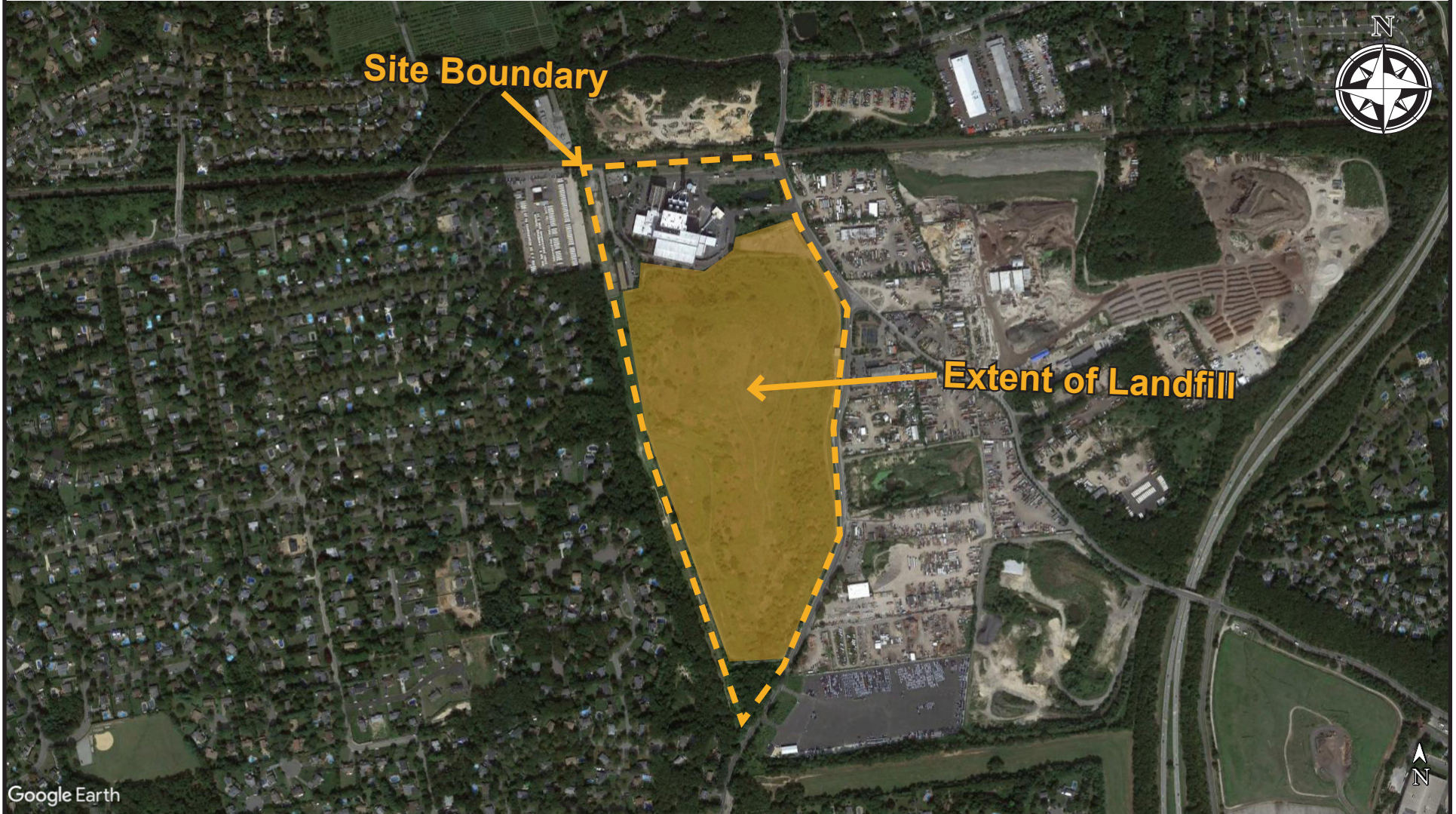
This report presents the field and analytical results obtained in support of the Groundwater and Surface Water Monitoring Program conducted during the first semi-annual event (second quarter of 2022), for the East Northport Landfill, on behalf of the Town of Huntington (TOH), Department of Environmental Waste Management. Groundwater sampling was performed by D&B Engineers and Architects (D&B) on May 18, 20, 23, and 25, 2022. Surface water sampling was performed on May 27, 2022. 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 reggraded in preparation for construction of the final cover system. Areas of the landfill that have been reggraded 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 2022 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 2022) 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 MONITORING PROGRAM  
SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS**

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

**Notes:**

\*Screen length unavailable, screen length assumed to be 6 feet, based on known screen length of remaining CW monitoring wells.

bls: below land surface

msl: mean sea level

Source: Remedial Investigation of the East Northport Landfill (1994)

### **3.0 SAMPLING PROCEDURES AND ANALYSES**

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

#### **3.1 Groundwater Level Measurement Procedures**

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

#### **3.2 Sampling Procedures**

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

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



utilizing a 2-inch Grundfos submersible pump connected to HDPE tubing and collected via a decontaminated stainless-steel bailer.

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

Groundwater samples collected from wells purged with a submersible pump and not analyzed for emergent contaminants were 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 Volatile Organic Compounds (VOCs) analysis were collected first, followed by inorganic parameters and leachate indicators. Groundwater samples were stored in an ice-filled cooler with the chain of custody forms and delivered to the analytical laboratory. Samples that were analyzed for Emerging Contaminants were segregated into separate coolers and did not come into contact with sample bottles for different parameters.

Surface water samples were collected by carefully lowering a decontaminated hand dipper directly beneath the surface water and gently transferring the sample into laboratory supplied sample containers. Samples for VOCs analysis were collected first, followed by select leachate indicators. Surface water 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 2022) sampling event from the 11 groundwater monitoring wells were analyzed for Target Compound List (TCL); Volatile Organic Compounds (VOCs); select Inorganic Parameters (aluminum, arsenic, cadmium, calcium, chromium, iron, lead, magnesium, mercury, potassium and sodium); and select Leachate Indicator Parameters (alkalinity/bicarbonate, ammonia, nitrate, chloride, sulfate, total dissolved solids and hardness).



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

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

### 3.3.2 Surface Water Analyses

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

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

## **4.0 ANALYTICAL RESULTS**

### **4.1 Field Parameters**

The final field parameter values and field data measured for groundwater and surface water for the first semi-annual (second quarter 2022) 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 NYSDEC Guidance Values of PFAS and Drinking Water Standards (DWS) for Emerging Contaminants are provided in **Appendices A-1** through **A-4**. Historical groundwater results from 1996 to the previous sampling event for the monitoring wells are provided in **Appendix B**.

#### **4.2.1 Volatile Organic Compounds**

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

#### **4.2.2 Inorganic Parameters**

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



**Table 4-1**  
**EAST NORTHPORT LANDFILL**  
**GROUNDWATER AND SURFACE WATER MONITORING PROGRAM**  
**FIRST SEMI-ANNUAL GROUNDWATER SAMPLING-SECOND QUARTER 2022**  
**SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA**

| <b>Monitoring Well</b> | <b>pH (Standard Units)</b> | <b>Temperature (°C)</b> | <b>Specific Conductance (mS/cm)</b> | <b>Turbidity (NTUs)</b> | <b>ORP (mV)</b> | <b>DO (mg/l)</b> | <b>Salinity (ppt)</b> | <b>PID (ppm)</b> | <b>Purging Method</b> |
|------------------------|----------------------------|-------------------------|-------------------------------------|-------------------------|-----------------|------------------|-----------------------|------------------|-----------------------|
| CW1-S                  | 6.80                       | 18.16                   | 0.740                               | 0.0                     | -128            | 0.56             | 0.4                   | 0.0              | Submersible Pump      |
| CW1-M                  | 6.22                       | 17.57                   | 0.233                               | 0.0                     | -58             | 0.65             | 0.1                   | 0.0              | Submersible Pump      |
| CW2-M                  | 6.28                       | 14.22                   | 0.240                               | 0.0                     | 227             | 0.64             | 0.1                   | 0.0              | Submersible Pump      |
| CW4-S                  | 7.06                       | 17.27                   | 0.215                               | 0.0                     | 68              | 1.33             | 0.1                   | 0.0              | Submersible Pump      |
| CW4-M                  | 6.93                       | 14.31                   | 0.235                               | 0.0                     | 232             | 6.86             | 0.1                   | 0.0              | Submersible Pump      |
| EN1-M                  | 6.59                       | 13.20                   | 0.289                               | 0.0                     | 215             | 9.59             | 0.1                   | 0.0              | Bladder Pump          |
| EN6-S                  | 5.26                       | 13.04                   | 0.299                               | 0.0                     | 264             | 8.28             | 0.1                   | 0.0              | Submersible Pump      |
| EN6-M                  | 6.47                       | 12.93                   | 0.412                               | 0.0                     | 260             | 2.91             | 0.2                   | 0.0              | Submersible Pump      |
| EN7-M                  | 7.52                       | 14.72                   | 0.714                               | 0.0                     | -7              | 0.45             | 0.3                   | 0.0              | Bladder Pump          |
| EN9-M                  | 7.01                       | 11.57                   | 0.594                               | 0.0                     | 268             | 5.69             | 0.3                   | 0.0              | Submersible Pump      |
| EN10-M                 | 6.81                       | 14.24                   | 0.204                               | 0.0                     | 303             | 8.00             | 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 2022  
SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA**

| <b>Monitoring Well</b> | <b>Initial Depth to Water (in feet)</b> | <b>Depth of Well (in feet)</b> | <b>Well Diameter (inches)</b> | <b>Volume of Water Purged (gallons)</b> | <b>Date of Sampling</b> | <b>Time of Sampling</b> | <b>Initials of Samplers</b> | <b>Weather Condition</b> |
|------------------------|-----------------------------------------|--------------------------------|-------------------------------|-----------------------------------------|-------------------------|-------------------------|-----------------------------|--------------------------|
| CW1-S                  | 58.20                                   | 77.40                          | 6                             | 150                                     | 5/18/22                 | 11:55 am.               | KR                          | Mostly cloudy, 60-70 F   |
| CW1-M                  | 58.25                                   | 104.70                         | 6                             | 350                                     | 5/18/22                 | 10:35 a.m.              | KR                          | Mostly cloudy, 60-70 F   |
| CW2-M                  | 79.49                                   | 116.90                         | 4                             | 150                                     | 5/20/22                 | 3:25 p.m.               | KR                          | Cloudy, 60-70 F          |
| CW4-S                  | 94.35                                   | 116.90                         | 4                             | 60                                      | 5/18/22                 | 4:50 p.m.               | KR                          | Mostly cloudy, 60-70 F   |
| CW4-M                  | 94.10                                   | 148.00                         | 4                             | 150                                     | 5/18/22                 | 3:40 p.m.               | KR                          | Mostly cloudy, 60-70 F   |
| EN1-M                  | 65.01                                   | 175.90                         | 4                             | 6                                       | 5/23/22                 | 5:00 p.m.               | KR                          | Mostly cloudy, 65-75 F   |
| EN6-S                  | 96.83                                   | 113.70                         | 4                             | 60                                      | 5/20/22                 | 9:35 a.m.               | KR                          | Cloudy, 60-70 F          |
| EN6-M                  | 95.79                                   | 174.00                         | 4                             | 240                                     | 5/20/22                 | 11:15 a.m.              | KR                          | Cloudy, 60-70 F          |
| EN7-M                  | 25.58                                   | 223.74                         | 4                             | 8                                       | 5/23/22                 | 11:50 a.m.              | KR                          | Mostly cloudy, 65-75 F   |
| EN9-M                  | 27.08                                   | 134.00                         | 4                             | 350                                     | 5/20/22                 | 1:35 p.m.               | KR                          | Cloudy, 60-70 F          |
| EN10-M                 | 222.15                                  | 416.00                         | 4                             | 450                                     | 5/25/22                 | 2:45 p.m.               | KR                          | Sunny, 60-65 F           |

Notes:

Final field parameter readings were measured prior to completion of sample collection.

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

**Table 4-2**  
**EAST NORTHPORT LANDFILL**  
**GROUNDWATER AND SURFACE WATER MONITORING PROGRAM**  
**FIRST SEMI-ANNUAL 2022 SURFACE WATER SAMPLING-SECOND QUARTER 2022**  
**SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA**

| <b>Monitoring Location</b> | <b>pH (Standard Units)</b> | <b>Temperature (°C)</b> | <b>Specific Conductance (mS/cm)</b> | <b>Turbidity (NTUs)</b> | <b>ORP (mV)</b> | <b>DO (mg/l)</b> | <b>Salinity (ppt)</b> |
|----------------------------|----------------------------|-------------------------|-------------------------------------|-------------------------|-----------------|------------------|-----------------------|
| SW-1                       | 6.55                       | 15.01                   | 0.269                               | 0                       | 219             | 3.15             | 0.1                   |
| SW-2                       | 7.05                       | 13.76                   | 0.416                               | 0                       | 212             | 8.57             | 0.2                   |
| SW-3                       | 7.01                       | 11.61                   | 0.360                               | 0                       | 110             | 8.13             | 0.2                   |
| SW-4                       | 6.42                       | 14.07                   | 0.291                               | 0                       | 194             | 4.28             | 0.1                   |
| SW-5                       | 7.10                       | 17.33                   | 0.369                               | 0                       | 128             | 6.91             | 0.2                   |
| SW-6                       | 7.59                       | 19.89                   | 0.417                               | 0                       | 180             | 4.45             | 0.2                   |
| SW-7                       | 8.58                       | 14.70                   | 40.0                                | 0                       | 185             | 7.11             | 25.3                  |

Notes:

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

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



- *Arsenic* exceeded the groundwater standard (25 ug/l) in cross-gradient well CW1-S at a concentration of 38.6 ug/l. Arsenic was not detected within upgradient well EN1-M.
- *Iron* exceeded the groundwater standard (300 ug/l) in downgradient well EN7-M at a concentration of 711 ug/l. Iron also exceeded the groundwater standard in cross-gradient wells CW1-S and CW1-M, at concentrations of 19,000 ug/l and 7,430 ug/l, respectively. In upgradient well EN1-M, iron exceeded the groundwater standard at a concentration of 1,130 ug/l.
- *Sodium* exceeded the groundwater standard (20,000 ug/l) in downgradient wells EN6-S, EN6-M, EN7-M and EN9-M at concentrations ranging from 42,600 ug/l to 112,000 ug/l. Sodium exceeded the groundwater standard in cross-gradient wells CW1-S and CW-2M at concentrations of 68,300 ug/l and 22,900 ug/l. In upgradient well EN1-M, sodium was detected at a concentration of 24,000 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 2021) compared to the results of this sampling event is presented below:

- *Arsenic* has exceeded the groundwater standard for the second consecutive sampling event within cross-gradient well CW1-S. Arsenic was detected at a concentration of 44.4 ug/l during the prior sampling event and decrease to a concentration of 38.6 ug/l this sampling event.
- *Cadmium* exceeded the groundwater standard within downgradient wells CW2-M and CW4-S during the prior sampling event at concentrations of 10.4 ug/l and 16.7 ug/l. Cadmium was not detected above the groundwater standard within any monitoring wells during this sampling event.
- *Chromium* exceeded the groundwater standard within upgradient well EN1-M during the prior sampling event at a concentration of 269 ug/l. Chromium was not detected above the groundwater standard within any monitoring wells during this sampling event.
- *Iron* has exceeded the groundwater standard for consecutive sampling events within cross-gradient and downgradient wells; CW1-S, CW1-M, EN1-M, and EN7-M. Iron concentrations at downgradient well EN6-S and EN10-M decreased to levels below the groundwater standard during the current sampling event, compared to the prior sampling event when they exceeded the standard at concentrations of 488 ug/l and 591 ug/l, respectively. Iron concentration at downgradient well CW2-M decreased to levels below the groundwater standard during the current sampling event, compared to the prior sampling event when it exceeded the standard at a concentration of 841 ug/l.

- *Sodium* has exceeded the groundwater standard for consecutive sampling events at wells; CW1-S, CW2-M, EN1-M, EN6-S, EN6-M, EN7-M, and EN9-M for the second consecutive monitoring event. The maximum concentration of sodium detected during this sampling event decreased to 112,000 ug/l, which was detected within EN7-M. The maximum concentration detected during the prior sampling event was 168,000 ug/l, which was also detected within EN7-M.

#### 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 35.2 mg/l and in downgradient well EN7-M at a concentration of 4.4 mg/l. Ammonia was not detected within upgradient well EN1-M.
- *Total Dissolved Solids* were detected above the groundwater standard (500 mg/l) in downgradient well EN7-M at a concentration of 560 mg/l. Total Dissolved Solids were detected below the groundwater standards at upgradient well EN1-M, at a concentration of 62 mg/l.

Select leachate indicators which exceeded the Class GA groundwater standards during the prior sampling event (fourth quarter 2021) compared to the results of this sampling event is presented below:

- *Ammonia* has exceeded the groundwater standard for the second consecutive sampling event at wells CW1-S and EN7-M. Ammonia concentrations have decreased at both wells; from 44.5 mg/l and 24.9 mg/l during the prior monitoring event, to 35.2 mg/l and 4.4 mg/l, respectively.
- *Total Dissolved Solids* has exceeded the groundwater standard for the second consecutive sampling event at well EN7-M. Total Dissolved Solids has decreased in concentration within EN7-M this sampling event to 560 mg/l, compared to a concentration of 782 mg/l during the prior sampling event.

#### 4.2.4 Emerging Contaminants

Tabulated analytical results for Emerging Contaminants for the selected three (3) monitoring wells (EN1-M, EN7-M and EN10-M), are presented in **Appendix A-4**. Discussion of the individual Emerging Contaminants that were detected in monitoring wells at concentrations exceeding NYSDEC Guidance Values of PFAS 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 29 ng/l. PFOS was detected in upgradient well EN1-M, at a concentration of 1.2 ng/l.
- *Perfluorooctanoic Acid (PFOA)* was detected above the drinking water standard (10 ng/l) in downgradient well EN7-M at a concentration of 52 ng/l. In upgradient well EN1-M, PFOA was detected at a concentration of 4.8 ng/l.
- *1,4-Dioxane* was detected above the drinking water standard (1 ug/l) in downgradient well EN7-M at a concentration of 18 ug/l. 1,4-Dioxane was detected in upgradient well EN1-M at a concentration of 0.25 ug/l.

A comparison of Emerging Contaminant concentrations at the selected wells during the prior sampling event (fourth quarter 2021) compared to the results of this sampling event is presented below:

- *Perfluorooctane Sulfonic Acid (PFOS)* has exceeded the drinking water standard in downgradient well EN7-M for a second consecutive sampling event. PFOS concentration in well EN7-M decreased this sampling event to 29 ng/l, compared to a detected concentration of 33 ng/l during the prior sampling event.
- *Perfluorooctanoic Acid (PFOA)* has exceeded the drinking water standard in downgradient well EN7-M for a second consecutive sampling event. PFOA concentration in well EN7-M decreased this sampling event to 52 ng/l, compared to a detected concentration of 63 ng/l during the prior sampling event.
- *1,4-Dioxane* has exceeded the drinking water standard in downgradient well EN7-M for a second consecutive sampling event. 1,4-Dioxane concentration in well EN7-M increased this sampling event to 18 ug/l, compared to a detected concentration of 23 ug/l during the prior sampling event.



### 4.3 Surface Water Sampling Results

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

#### 4.3.1 Volatile Organic Compounds

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

#### 4.3.2 Leachate Indicators

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

## 5.0 DATA VALIDATION

The May 2022 sampling event for the East Northport Landfill included the collection of a total of eleven (11) groundwater and seven (7) surface waters. The samples were analyzed for modified baseline parameters, which consist of the NYCRR Part 363 baseline parameters, including Target Compound List (TCL) Volatile organic compounds (VOCs) by EPA Method 624.1, 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 Services, LLC, Melville, New York, Pace Northeast, Longmeadow, Massachusetts, and Eurofins TestAmerica, Amherst, New York. All analyses were performed in accordance with United States Environmental Protection Agency (USEPA) SW-846 and New York State Department of Environmental Conservation (NYSDEC) 6/05 Analytical Services Protocol (ASP) methodologies as specified in NYCRR Part 363.

Three data packages (70215314, 70216287, and 70215927 [contained subcontracted data 480-198416, 480-198428, and 22E1781]) have been reviewed in accordance with the NYSDEC 7/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. Data Validation Forms were prepared for the package and are presented in **Appendix G**. Laboratory data packages are provided in **Appendix H**.

The findings of the validation process are presented below:

- The percent recoveries (%Rs) was below the QC limit in the MS and MSD for 2-chloroethylvinyl ether associated with all SW samples. 2-Chloroethylvinyl ether was qualified as an estimated (UJ) in the associated samples.
- The %R was below the QC limit in the MS and MSD for 2-chloroethylvinyl ether, total xylene, and vinyl chloride associated with samples EN6-S, EN6-M, EN9-M, and CW2-M and 2-chloroethylvinyl ether TB52522, Field Blank, BLIND DUPLICATE, and EN10-M. 2-Chloroethylvinyl ether, total xylene, and vinyl chloride were qualified as an estimated limit (UJ) in associated samples.

- Chloride and nitrate-nitrite were detected in the blank. Nitrate and nitrate-nitrite were non-detect (UB) in sample SW-7 based on blank results.
- The %Rs were below the QC limit in the LCS and/or spike for alkalinity, carbonate (CaCO<sub>3</sub>), nitrate, and nitrite associated with all SW samples. It was qualified as estimated (J/UJ) in all the samples.
- The %Rs were below the QC limit in the MS and/or LCS for alkalinity, carbonate (CaCO<sub>3</sub>) associated with samples EN6-M, EN6-S, EN9-M, CW2-M, EN7-M, EN1-M, BLIND DUPLICATE, EN10-M, and FIELD BLANK; and total and bicarbonate alkalinity associated with samples EN6-M, EN6-S, EN9-M, and CW2-M, and were qualified as estimated (J/UJ).
- The %R was above the QC limit in the MS for nitrate associated with samples EN7-M and EN1-M. Nitrate was detected above the reporting limit in samples EN7-M and EN1-M and were qualified as estimated (J).
- The RPD were above the QC limits in the duplicate for total dissolved solids all samples except EN7-M and EN1-M and nitrate associated with samples FIELD BLANK, BLIND DUPLICATE, and EN10-M. The following were qualified as estimated (J): nitrate in samples BLIND DUPLICATE, and EN10-M and total dissolved solids all samples except Field blank, EN7-M, and EN1-M.
- The holding time was exceeded for 1,4-dioxane for samples EN1-M and EN7-M. 1,4-Dioxane was qualified as estimated (J) in samples EN1-M and EN7-M.
- The %R was below the QC limit in the MS for perfluoroheptanoic acid (PFHpA). The %Rs were above the QC limits in the MS and/or MSD for perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), perfluorodecanesulfonic acid (PFDS), and perfluorohexanesulfonic acid (PFHxS). The RPD was above the QC limits in the MS/MSD for perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), and 6:2 fluorotelomersulfonic acid (6:2FTS A). Sample EN7-M was used for the MS and MSD analysis and was qualified as estimated (J/UJ) for perfluoroheptanoic acid (PFHpA), perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), perfluorodecanesulfonic acid (PFDS), 1H,1H,2H,2H-perfluorooctane sulfonate (6:2), and perfluorohexanesulfonic acid (PFHxS).
- The internal standard area was above the QC limit for M2-6:2FTS associated with 1H,1H,2H,2H-perfluorooctane sulfonate (6:2) in sample EN7-M. The internal standard area was below the QC limits for M8FOSA, associated with perfluoroheptanesulfonic acid (PFHpS) and perfluorooctanesulfonic acid (PFOS);

M2PFTA associated with perfluorotetradecanoic acid (PFTA) and perfluorotridecanoic acid (PFTrDA); MPFBA associated with perfluorobutanoic acid (PFBA); M3PFBS associated with perfluorobutanesulfonic acid (PFBS) and perfluorodecanesulfonic acid (PFDS); and M5PFPeA associated with perfluoropentanoic acid (PFPeA) in sample EN7-M and M2-6:2FTS associated with 1H,1H,2H,2H-perfluorooctane sulfonate (6:2) in sample EN10-M and Blind Duplicate.

- The following PFAs were detected above the reporting limit and qualified as estimated (J): perfluorooctanesulfonic acid (PFOS), perfluorobutanoic acid (PFBA), perfluorobutanesulfonic acid (PFBS), and perfluoropentanoic acid (PFPeA) in sample EN7-M.

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



## **6.0 GROUNDWATER LEVEL MEASUREMENTS**

Groundwater level measurements were recorded in the field by D&B during the sampling event for each of the eleven (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**

| <b>Well Designation</b> | <b>Date of Elevation Measurement</b> | <b>Measuring Point Elevation (feet above msl)</b> | <b>Depth to Water from Measuring Point (feet)</b> | <b>Groundwater Elevation (feet above msl)</b> |
|-------------------------|--------------------------------------|---------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| CW1-S                   | 5/18/22                              | 112.92                                            | 58.20                                             | 54.72                                         |
| CW1-M                   | 5/18/22                              | 111.68                                            | 58.25                                             | 53.43                                         |
| CW2-M                   | 5/20/22                              | 130.57                                            | 79.49                                             | 51.08                                         |
| CW4-S                   | 5/18/22                              | 147.19                                            | 94.35                                             | 52.84                                         |
| CW4-M                   | 5/18/22                              | 146.94                                            | 94.10                                             | 52.84                                         |
| EN1-M                   | 5/23/22                              | 124.24                                            | 65.01                                             | 59.23                                         |
| EN6-S                   | 5/20/22                              | 133.80                                            | 96.83                                             | 36.97                                         |
| EN6-M                   | 5/20/22                              | 132.62                                            | 95.79                                             | 36.83                                         |
| EN7-M                   | 5/23/22                              | 54.17                                             | 25.58                                             | 28.59                                         |
| EN9-M                   | 5/20/22                              | 31.28                                             | 27.08                                             | 4.20                                          |
| EN10-M                  | 5/25/22                              | 259.10                                            | 222.15                                            | 36.95                                         |

Note: MSL: Mean Sea Level

## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

### **7.1 Conclusions**

The results of the first semi-annual 2022 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 waters of Sunken Meadow Creek, the local downgradient discharge point of shallow groundwater, remain below the NYSDEC Class C surface water standards.

### **7.2 Recommendations**

Based on the findings of the first semi-annual 2022 groundwater and surface water sampling event, as well as historical analytical data, the following recommendations are presented:

- The monitoring frequency for the Semi-annual Groundwater and Surface Water Monitoring Program should remain on a semi-annual basis.
- The eleven (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 2022.

## **APPENDIX A-1**

### **MONITORING WELL SAMPLE RESULTS VOLATILE ORGANIC COMPOUNDS**



Appendix A - 1  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
May 2022 Sampling Event  
Monitoring Well Sample Results  
Volatile Organic Compounds

| Sample ID<br>Sample Date         |            |                                                  | CW-1M<br>5/18/22 | CW-1S<br>5/18/22 | CW2-M<br>5/20/22 | CW-4M<br>5/18/22 | CW-4S<br>5/18/22 | EN1-M<br>5/23/22 | EN6-M<br>5/20/22 | EN6-S<br>5/20/22 | EN7-M<br>5/23/22 | EN9-M<br>5/20/22 | EN10-M<br>5/25/22 |
|----------------------------------|------------|--------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Units in ug/l                    |            |                                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| VOLATILE COMPOUNDS               | CAS Number | NYSDEC Class<br>GA Standard or<br>Guidance Value |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| 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               |
| 2-Chloroethyl vinyl ether        | 110-75-8   | --                                               | 1 U              | 1 U              | 1 UJ             | 1 U              | 1 U              | 1 U              | 1 UJ             | 1 UJ             | 1 U              | 1 UJ             | 1 UJ              |
| 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                | 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              | 1.3              | 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              | 1.6              | 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 UJ             | 1 U              | 1 U              | 1 U              | 1 UJ             | 1 UJ             | 1 U              | 1 UJ             | 1 U               |
| Xylene (total)                   | 1330-20-7  | 5                                                | 1 U              | 1 U              | 1 UJ             | 1 U              | 1 U              | 1 U              | 1 UJ             | 1 UJ             | 1 U              | 1 UJ             | 1 U               |
| Total Volatile Organic Compounds |            |                                                  | 0                | 1                | 0                | 0                | 0                | 1.3              | 0                | 0                | 1.6              | 0                | 0                 |

Footnotes/Qualifiers

ug/l: Micrograms per liter

--: No standard

J: Estimated limit

U: Compound was analyzed for but not detected

## **APPENDIX A-2**

### **MONITORING WELL SAMPLE RESULTS INORGANIC PARAMETERS**

Appendix A-2  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
May 2022 Sampling Event  
Monitoring Well Sample Results  
Total and Dissolved Metals

| Sample ID<br>Sample Date |            |                                                  | CW-1M<br>5/18/22 | CW-1S<br>5/18/22 | CW2-M<br>5/20/22 | CW-4M<br>5/18/22 | CW-4S<br>5/18/22 | EN1-M<br>5/23/22 | EN6-M<br>5/20/22 | EN6-S<br>5/20/22 | EN7-M<br>5/23/22 | EN9-M<br>5/20/22 | EN10-M<br>5/25/22 |
|--------------------------|------------|--------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Units in ug/l            |            |                                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| METALS                   | CAS Number | NYSDEC Class<br>GA Standard or<br>Guidance Value |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| Aluminum                 | 7429-90-5  | --                                               | 83.4 J           | 200 U            | 200 U            | 200 U            | 200 U            | 152 J            | 200 U            | 200 U            | 121 J            | 200 U            | 200 U             |
| Arsenic                  | 7440-38-2  | 25                                               | 10 U             | <u>38.6</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            | 0.42 J           | 2.5 U            | 0.68 J           | 2.5 U            | 2.5 U            | 2.5 U            | 2.5 U            | 2.5 U            | 2.5 U             |
| Calcium                  | 7440-70-2  | --                                               | 21400            | 41500            | 19900            | 23300            | 18200            | 24200            | 32600            | 15800            | 69200            | 30100            | 17200             |
| Chromium                 | 7440-47-3  | 200                                              | 10 U             | 10 U             | 10 U             | 10 U             | 10 U             | 151              | 10 U             | 1.5 J            | 10 U             | 10 U             | 1.3 J             |
| Iron                     | 7439-89-6  | 300                                              | <u>7430</u>      | <u>19000</u>     | 70.6 J           | 100 U            | 147              | <u>1130</u>      | 100 U            | 38.7 J           | <u>711</u>       | 100 U            | 100 U             |
| Lead                     | 7439-92-1  | 25                                               | 5 U              | 5 U              | 5 U              | 5 U              | 5 U              | 5 U              | 5 U              | 5 U              | 5 U              | 5 U              | 5 U               |
| Magnesium                | 7439-95-4  | 35000                                            | 13100            | 12500            | 5580             | 9250             | 6780             | 8710             | 9460             | 6520             | 17900            | 15200            | 6330              |
| Mercury                  | 7439-97-6  | 0.7                                              | 0.2 U            | 0.094 J          | 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  | --                                               | 2420 J           | 30000            | 4840 J           | 1470 J           | 3920 J           | 1860 J           | 2980 J           | 2820 J           | 12700            | 2650 J           | 1420 J            |
| Sodium                   | 7440-23-5  | 20000                                            | 10600            | <u>68300</u>     | <u>22900</u>     | 17100            | 17900            | <u>24000</u>     | <u>48300</u>     | <u>42600</u>     | <u>112000</u>    | <u>82100</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  
May 2022 Sampling Event  
Monitoring Well Sample Results  
Leachate Indicator Parameters

Page 1 of 1

| Sample ID<br>Sample Date |            |                                                        | CW-1M<br>5/18/22 | CW-1S<br>5/18/22 | CW2-M<br>5/20/22 | CW-4M<br>5/18/22 | CW-4S<br>5/18/22 | EN1-M<br>5/23/22 | EN6-M<br>5/20/22 | EN6-S<br>5/20/22 | EN7-M<br>5/23/22 | EN9-M<br>5/20/22 | EN10-M<br>5/25/22 |
|--------------------------|------------|--------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Units in mg/l            |            |                                                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| LEACHATE INDICATORS      | CAS Number | NYSDEC<br>Class GA<br>Standard or<br>Guidance<br>Value |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| Alkalinity, Carbonate    | ALK        | --                                                     | 1 U              | 1 U              | 1 UJ             | 1 U              | 1 U              | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ              |
| Ammonia, as N            | 7664-41-7  | 2                                                      | 0.1 U            | <b>35.2</b>      | 0.071 J          | 0.1 U            | 0.17             | 0.1 U            | 0.055 J          | 0.057 J          | <b>4.4</b>       | 0.064 J          | 0.1 U             |
| Chloride                 | 16887-00-6 | 250                                                    | 21.2             | 47               | 31.1             | 33.1             | 35.8             | 54.5             | 93.1             | 67.2             | 117              | 201              | 31.7              |
| Hardness                 | HARD       | --                                                     | 107              | 155              | 72.7             | 96.3             | 73.4             | 96.3             | 120              | 66.3             | 247              | 138              | 69                |
| Nitrate                  | 14797-55-8 | 10                                                     | 0.054            | 0.14             | 1.9              | 5.6              | 5.7              | 8.5 J            | 4.7              | 6.6              | 0.09 J           | 0.68             | 4.5 J             |
| Sulfate                  | 14808-79-8 | 250                                                    | 54.3             | 94.1             | 58.6             | 30.4             | 21.2             | 30.3             | 26.4             | 25.4             | 55.4             | 18.8             | 26.9              |
| Total Dissolved Solids   | E-10173    | 500                                                    | 152 J            | 374 J            | 159 J            | 164 J            | 168 J            | 62               | 259 J            | 195 J            | <b>560</b>       | 364 J            | 157 J             |

Footnotes/Qualifiers:

mg/l Milligrams per liter

U Compound was analyzed for but not detected

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  
May 2022 Sample Results  
Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane

| Sample ID<br>Sample Date                            |            |        | EN1-M<br>5/23/2022 | EN7-M<br>5/23/2022 | EN10-M<br>5/25/2022 |
|-----------------------------------------------------|------------|--------|--------------------|--------------------|---------------------|
| PFAS in ng/l                                        | CAS Number | GV/DWS |                    |                    |                     |
| 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)         | 39108-34-4 | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)         | 27619-97-2 | --     | 1.7 U              | 1 J                | 1.7 U               |
| 2-(N-methyl perfluorooctanesulfonamido) acetic acid | 2355-31-9  | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine | 2991-50-6  | --     | 1.7 U              | 2.9                | 1.7 U               |
| Perfluorobutanesulfonic Acid                        | 375-73-5   | --     | 0.6 J              | 4 J                | 0.72 J              |
| Perfluorobutyric Acid (PFBA)                        | 375-22-4   | --     | 3.5                | 62 J               | 3.5                 |
| Perfluorodecane Sulfonic Acid                       | 335-77-3   | --     | 1.7 U              | 1.7 UJ             | 1.7 U               |
| Perfluorodecanoic Acid (PFDA)                       | 335-76-2   | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| Perfluorododecanoic Acid (PFDoA)                    | 307-55-1   | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| Perfluoroheptane Sulfonate (PFHpS)                  | 375-92-8   | --     | 0.8 J              | 1.7 UJ             | 1.7 U               |
| Perfluoroheptanoic Acid (PFHpA)                     | 375-85-9   | --     | 2.4                | 28 J               | 1.2                 |
| Perfluorohexanesulfonic Acid                        | 355-46-4   | --     | 9.6                | 16 J               | 2.3                 |
| Perfluorohexanoic Acid (PFHxA)                      | 307-24-4   | --     | 5.6                | 72                 | 4                   |
| Perfluorononanoic Acid                              | 375-95-1   | --     | 1.7 U              | 1.5 J              | 1.7 U               |
| Perfluorooctane Sulfonamide (FOSA)                  | 754-91-6   | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| Perfluorooctane Sulfonic Acid (PFOS)                | 1763-23-1  | 10 GV  | 1.2                | 29 J               | 1.7 U               |
| Perfluorooctanoic Acid (PFOA)                       | 335-67-1   | 10 GV  | 4.8                | 52                 | 1.7                 |
| Perfluoropentanoic Acid (PFPeA)                     | 2706-90-3  | --     | 4.7                | 41 J               | 3.7                 |
| Perfluorotetradecanoic Acid (PFTeA)                 | 376-06-7   | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| Perfluorotridecanoic Acid (PFTriA)                  | 72629-94-8 | --     | 1.7 U              | 1.7 UJ             | 1.7 U               |
| Perfluoroundecanoic Acid (PFUnA)                    | 2058-94-8  | --     | 1.7 U              | 1.7 U              | 1.7 U               |
| Total PFAS                                          |            | --     | 33.20              | 309.40             | 17.12               |
| 1,4-Dioxane (P-Dioxane) In ug/L                     | 123-91-1   | 1 DWS  | 0.25 J             | 18 J               | 0.21                |

**Exceeds Preliminary target levels**

GV: Guidance Values as per New York State Screening Value as per the Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's

Part 375 Remedial Programs June 2021

DWS: Drinking Water Standards

--: No standard or not analyzed

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**

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

| Sample ID<br>Sample Date         |            |                                                  | CW1-M<br>11/11/21 | CW1-S<br>11/11/21 | CW4-M<br>11/11/21 | CW4-S<br>11/11/21 | CW2-M<br>11/10/21 | EN1-M<br>11/15/21 | EN10-M<br>11/16/21 | EN7-M<br>11/15/21 | EN9-M<br>11/10/21 | EN6-M<br>11/10/21 | EN6-S<br>11/10/21 |
|----------------------------------|------------|--------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Units in ug/l                    |            |                                                  |                   |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |
| VOLATILE COMPOUNDS               | CAS Number | NYSDEC Class<br>GA Standard or<br>Guidance Value |                   |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |
| 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               |
| 2-Chloroethyl vinyl ether        | 110-75-8   | --                                               | 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 UJ              | 1 UJ              | 1 UJ              | 1 UJ              | 1 UJ              | 1 UJ              | 1 UJ               | 1 UJ              | 1 UJ              | 1 UJ              | 1 UJ              |
| 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                | 2.0               | 1 U               | 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               |
| Total Volatile Organic Compounds |            | --                                               | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                  | 2                 | 0                 | 0                 | 0                 |

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

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

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

| Sample ID<br>Sample Date |            |                                                  | CW1-M<br>11/11/21 | CW1-S<br>11/11/21 | CW4-M<br>11/11/21 | CW4-S<br>11/11/21 | CW2-M<br>11/10/21 | EN1-M<br>11/15/21 | EN10-M<br>11/16/21 | EN7-M<br>11/15/21 | EN9-M<br>11/10/21 | EN6-M<br>11/10/21 | EN6-S<br>11/10/21 |
|--------------------------|------------|--------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Units in ug/l            |            |                                                  |                   |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |
| METALS                   | CAS Number | NYSDEC Class<br>GA Standard or<br>Guidance Value |                   |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |
| Aluminum                 | 7429-90-5  | --                                               | 927               | 622               | 32.1 J            | 32.5 J            | 494               | 111 J             | 213                | 648               | 200 U             | 200 U             | 91.6 J            |
| Arsenic                  | 7440-38-2  | 25                                               | 10 U              | <u>44.4</u>       | 10 U              | 10 U              | 10 U              | 10 U              | 10 U               | 10 U              | 10 U              | 10 U              | 10 U              |
| Cadmium                  | 7440-43-9  | 5                                                | 0.39 J            | 2.5 U             | 2.5 U             | 1.3 J             | 4.3               | 2.5 U             | 2.5 U              | 2.5 U             | 2.5 U             | 2.5 U             | 2.5 U             |
| Calcium                  | 7440-70-2  | --                                               | 22200             | 46700             | 23800             | 18000             | 16200             | 24100             | 14300              | 91200             | 31100             | 30700             | 17900             |
| Chromium                 | 7440-47-3  | 200                                              | 1.9 J             | 40.5              | 2 J               | 2.6 J             | 3.6 J             | <u>269</u>        | 29.5               | 1.5 J             | 1.8 J             | 1.4 J             | 30.6              |
| Iron                     | 7439-89-6  | 300                                              | <u>3130</u>       | <u>22200</u>      | 49.1 J            | 137               | <u>841</u>        | <u>1520</u>       | <u>591</u>         | <u>2200</u>       | 68.3 J            | 211               | <u>488</u>        |
| Lead                     | 7439-92-1  | 25                                               | 8.6               | 7.3               | 5 U               | 3.2 J             | 7.4               | 5 U               | 12.1               | 5 U               | 5 U               | 5 U               | 5 U               |
| Magnesium                | 7439-95-4  | 35000                                            | 13500             | 15000             | 9280              | 6730              | 4230              | 8840              | 5220               | 25100             | 15900             | 9230              | 7580              |
| Mercury                  | 7439-97-6  | 0.7                                              | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.11 UB           | 0.2 U             | 0.2 U              | 0.2 U             | 0.11 UB           | 0.14 UB           | 0.13 UB           |
| Potassium                | 7440-09-7  | --                                               | 2360 J            | 33500             | 1250 J            | 3790 J            | 6110              | 1340 J            | 1090 J             | 26000             | 2630 J            | 2960 J            | 2700 J            |
| Sodium                   | 7440-23-5  | 20000                                            | 10700             | <u>82300</u>      | 17100             | 17500             | <u>24300</u>      | <u>20900</u>      | 14200              | <u>168000</u>     | <u>84600</u>      | <u>46600</u>      | <u>45800</u>      |

Footnotes/Qualifiers:

ug/l Micrograms per liter

U Compound was analyzed for but not detected

J Estimated value

UB Non-detected based on blank results

-- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

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

Page 1 of 1

| Sample ID<br>Sample Date |            |                                                        | CW1-M<br>11/11/21 | CW1-S<br>11/11/21 | CW4-M<br>11/11/21 | CW4-S<br>11/11/21 | CW2-M<br>11/10/21 | EN1-M<br>11/15/21 | EN10-M<br>11/16/21 | EN7-M<br>11/15/21 | EN9-M<br>11/10/21 | EN6-M<br>11/10/21 | EN6-S<br>11/10/21 |
|--------------------------|------------|--------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Units in mg/l            |            |                                                        |                   |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |
| LEACHATE INDICATORS      | CAS Number | NYSDEC<br>Class GA<br>Standard or<br>Guidance<br>Value |                   |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |
| Alkalinity, Carbonate    | ALK        | --                                                     | 1 U               | 1 U               | 1 U               | 1 U               | 1 U               | 1 U               | 1 U                | 1 U               | 1 U               | 1 U               | 1 U               |
| Ammonia, as N            | 7664-41-7  | 2                                                      | 0.09 J            | <b>44.5</b>       | 0.1 U             | 0.2               | 0.1 U             | 0.1 UJ            | 0.1 U              | <b>24.9</b>       | 0.083 J           | 0.1 U             | 0.1 U             |
| Chloride                 | 16887-00-6 | 250                                                    | 19.5 J            | 49.4 J            | 30.3 J            | 33.4 J            | 31.7 J            | 50 J              | 29.9 J             | 187 J             | 211 J             | 47.3 J            | 77.6 J            |
| Hardness                 | HARD       | --                                                     | 111               | 178               | 97.6              | 72.7              | 57.9              | 96.6              | 57.2               | 331               | 143               | 115               | 75.9              |
| Nitrate                  | 14797-55-8 | 10                                                     | 0.048 UB          | 0.053 UB          | 5.1               | 4.8               | 1.9               | 6.6               | 4.9                | 0.05 U            | 0.61              | 3.9               | 5.2               |
| Sulfate                  | 14808-79-8 | 250                                                    | 49.5              | 87.2              | 29.2              | 19.1              | 25.5              | 30.6              | 25.3               | 81.6              | 18.2              | 13.5              | 24.4              |
| Total Dissolved Solids   | E-10173    | 500                                                    | 165               | 420               | 200               | 186               | 152               | 189               | 129                | <b>782</b>        | 412               | 154               | 234               |

Footnotes/Qualifiers:

mg/l Milligrams per liter

U Compound was analyzed for but not detected

J Estimated detection limit or value

UB Non-detected based on blank results

-- No standard or not analyzed

**Exceeds NYSDEC Class GA Standard or Guidance Value**



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

| Sample ID<br>Sample Date                            |            |                                                                  | EN7-M<br>11/15/2021 | EN10-M<br>11/16/2021 | EN1-M<br>11/15/2021 |
|-----------------------------------------------------|------------|------------------------------------------------------------------|---------------------|----------------------|---------------------|
| 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                                                          | 0.59 U              | 0.64 U               | 0.59 U              |
| 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)         | 27619-97-2 | 100 PTL                                                          | 2.3                 | 42 J                 | 0.44 J              |
| 2-(N-methyl perfluorooctanesulfonamido) acetic acid | 2355-31-9  | 100 PTL                                                          | 4.6                 | 0.66 U               | 0.61 U              |
| N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine | 2991-50-6  | 100 PTL                                                          | 0.74 UJ             | 0.8 U                | 0.73 UJ             |
| Perfluorobutanesulfonic Acid                        | 375-73-5   | 100 PTL                                                          | 6                   | 0.43                 | 0.46                |
| Perfluorobutyric Acid (PFBA)                        | 375-22-4   | 100 PTL                                                          | 69                  | 4.3                  | 3.1                 |
| Perfluorodecane Sulfonic Acid                       | 335-77-3   | 100 PTL                                                          | 0.32 UJ             | 0.34 U               | 0.31 UJ             |
| Perfluorodecanoic Acid (PFDA)                       | 335-76-2   | 100 PTL                                                          | 0.48 U              | 0.52 U               | 0.47 U              |
| Perfluorododecanoic Acid (PFDoA)                    | 307-55-1   | 100 PTL                                                          | 0.43 U              | 0.47 U               | 0.43 U              |
| Perfluoroheptane Sulfonate (PFHpS)                  | 375-92-8   | 100 PTL                                                          | 2.3 J               | 0.99 U               | 0.9 UJ              |
| Perfluoroheptanoic Acid (PFHpA)                     | 375-85-9   | 100 PTL                                                          | 21                  | 2                    | 1.7                 |
| Perfluorohexanesulfonic Acid                        | 355-46-4   | 100 PTL                                                          | 19                  | 1.5                  | 8.1                 |
| Perfluorohexanoic Acid (PFHxA)                      | 307-24-4   | 100 PTL                                                          | 71                  | 6                    | 5.2                 |
| Perfluorononanoic Acid                              | 375-95-1   | 100 PTL                                                          | 0.34 U              | 0.36 U               | 0.33 U              |
| Perfluorooctane Sulfonamide (FOSA)                  | 754-91-6   | 100 PTL                                                          | 0.41 U              | 0.44 U               | 0.41 U              |
| Perfluorooctane Sulfonic Acid (PFOS)                | 1763-23-1  | 10 DWS                                                           | <u>33 J</u>         | 0.63 U               | 0.99 J              |
| Perfluorooctanoic Acid (PFOA)                       | 335-67-1   | 10 DWS                                                           | <u>63</u>           | 1.5                  | 5.1                 |
| Perfluoropentanoic Acid (PFPeA)                     | 2706-90-3  | 100 PTL                                                          | 41                  | 4.2                  | 4.2                 |
| Perfluorotetradecanoic Acid (PFTeA)                 | 376-06-7   | 100 PTL                                                          | 0.36 UJ             | 0.39 U               | 0.35 UJ             |
| Perfluorotridecanoic Acid (PFTriA)                  | 72629-94-8 | 100 PTL                                                          | 0.27 UJ             | 0.3                  | 0.27 UJ             |
| Perfluoroundecanoic Acid (PFUnA)                    | 2058-94-8  | 100 PTL                                                          | 0.36 U              | 0.39 U               | 0.36 U              |
| Total PFAS                                          |            | 500 PTL                                                          | 332.20              | 62.23                | 29.29               |
| 1,4-Dioxane (P-Dioxane) In ug/L                     | 123-91-1   | 1 DWS                                                            | <u>23 J</u>         | 0.24                 | 0.24                |

**Exceeds Preliminary target levels**

PTL: Preliminary Target Levels

DWS: Drinking Water Standards

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

| Sample ID<br>Sample Date         |               |                                                  | CW1-S<br>7/8/21 | CW1-M<br>7/8/21 | CW2-M<br>7/7/21 | CW4-S<br>7/8/21 | CW4-M<br>7/8/21 | EN1-M<br>7/12/21 | EN6-S<br>7/7/21 | EN6-M<br>7/7/21 | EN7-M<br>7/12/21 | EN9-M<br>7/7/21 | EN10-M<br>7/13/21 |
|----------------------------------|---------------|--------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|-------------------|
| Units in ug/l                    |               |                                                  |                 |                 |                 |                 |                 |                  |                 |                 |                  |                 |                   |
|                                  | CAS<br>Number | NYSDEC Class<br>GA Standard or<br>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  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
June 2021 Sampling Event  
Monitoring Well Sample Results  
Total and Dissolved Metals

| Sample ID<br>Sample Date |            |                                                  | CW1-S<br>7/8/21 | CW1-M<br>7/8/21 | CW2-M<br>7/7/21 | CW4-S<br>7/8/21 | CW4-M<br>7/8/21 | EN1-M<br>7/12/21 | EN6-S<br>7/7/21 | EN6-M<br>7/7/21 | EN7-M<br>7/12/21 | EN9-M<br>7/7/21 | EN10-M<br>7/13/21 |
|--------------------------|------------|--------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|-------------------|
| Units in ug/l            |            |                                                  |                 |                 |                 |                 |                 |                  |                 |                 |                  |                 |                   |
| METALS                   | CAS Number | NYSDEC Class<br>GA Standard or<br>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  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
June 2021 Sampling Event  
Monitoring Well Sample Results  
Leachate Indicator Parameters

Page 1 of 1

| Sample ID<br>Sample Date |            |                                                        | CW1-S<br>7/8/21 | CW1-M<br>7/8/21 | CW2-M<br>7/7/21 | CW4-S<br>7/8/21 | CW4-M<br>7/8/21 | EN1-M<br>7/12/21 | EN6-S<br>7/7/21 | EN6-M<br>7/7/21 | EN7-M<br>7/12/21 | EN9-M<br>7/7/21 | EN10-M<br>7/13/21 |
|--------------------------|------------|--------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|-------------------|
| Units in mg/l            |            |                                                        |                 |                 |                 |                 |                 |                  |                 |                 |                  |                 |                   |
| LEACHATE INDICATORS      | CAS Number | NYSDEC<br>Class GA<br>Standard or<br>Guidance<br>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                                                      | <b>31</b>       | 0.3             | 0.14 UB         | 0.2             | 0.1 U           | 0.1 U            | 0.057 UB        | 0.36            | <b>10.6</b>      | 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  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
June 2021 Sample Results  
Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane

| Sample ID<br>Sample Date                            |            |                                                                  | EN1-M<br>7/12/2021 | EN7-M<br>7/12/2021 | EN10-M<br>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

## Table 2

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

## Volatile Organic Compounds

*Reported in Micrograms per Liter*

**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<br>Class GA<br>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<br>Class GA<br>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)   | <b>44.0</b>     | 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)   | <b>100.0 J</b> | 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)       | <b>217.0</b>    | 7.0 J           | ND(10.0)     | 2.0 J           | 9.0 J          | ND(10.0)  | 50.0                           |
| Iron                              | 92.0      | <b>18,400.0</b> | 197.0           | 131.0     | 42.0 J    | <b>2,160.0</b> | <b>1,750.0</b>  | 103.0           | <b>335.0</b> | <b>572.0</b>    | <b>6,460.0</b> | 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)        | <b>185.0</b>   | 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  | <b>69,700.0</b> | <b>21,500.0</b> | 6,410.0   | 17,100.0  | 2,226.0        | <b>43,900.0</b> | <b>52,300.0</b> | 5,800.0      | <b>43,700.0</b> | 5,420.0        | 9,950.0   | 20,000.0                       |
| <b>Leachate Indicators (mg/l)</b> |           |                 |                 |           |           |                |                 |                 |              |                 |                |           |                                |
| Ammonia                           | 0.059 J   | <b>22.30</b>    | 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               |
| <b>Total PFOA + PFOS</b>                                  | 2.76 J    | 2.18 J    | 2.95 J    | 0.00      | 2.32 J    | 70.0                |
| <b>Total PFAS</b>                                         | 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)     | <b>3.0</b>  | <b>3.0</b>  | <b>3.0 J</b> | <b>3.0 J</b> | ND(0.5) | <b>1.6</b> | 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              | <b>10.0</b> | <b>15.0</b> | <b>11.0</b> | <b>7.0</b>   | ND(5.0)      | ND(0.6) | <b>9.8</b> | <b>5.3</b> | <b>6.2</b> |
| 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                    | <b>2.9</b> | <b>2.4</b> | <b>2.4</b> | <b>2.2 J</b> | ND(0.6) | ND(0.1) | ND(0.17) | ND(0.17) | <b>1.6 J</b> |
| 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)    | <b>6.5</b> | <b>6.8</b> | <b>7.0</b>   | 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**

| <b>Metals (µg/l)</b>              | 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                           | <b>62.1</b>      | <b>79.4</b>        | <b>62.4</b>        | <b>44.8 B</b>     | <b>70.8</b>        | <b>61.0</b>      | <b>56.8</b>      | <b>67.2</b>      | <b>60.6</b>      |
| 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                              | <b>3,570.0</b>   | <b>5,760.0</b>     | <b>3,690.0</b>     | <b>4,540.0</b>    | <b>5,900.0</b>     | <b>5,270.0</b>   | <b>5,450.0</b>   | <b>5,800.0</b>   | <b>5,510.0</b>   |
| 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         | <b>47,300.0</b>    | 31,300.0           | <b>36,700.0 E</b> | 34,200.0 E         | 30,700.0         | 24,300.0         | <b>37,300.0</b>  | 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                            | <b>472,000.0</b> | <b>592,000.0 E</b> | <b>480,000.0 E</b> | <b>406,000.0</b>  | <b>450,000.0 E</b> | <b>360,000.0</b> | <b>271,000.0</b> | <b>420,000.0</b> | <b>442,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                    |                    |                   |                    |                  |                  |                  |                  |
| Ammonia                           | <b>273.000</b>   | <b>343.000</b>     | <b>319.000</b>     | <b>280.000</b>    | <b>190.000</b>     | <b>243.000</b>   | <b>143.000</b>   | <b>190.000</b>   | <b>200.000</b>   |
| 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                          | <b>477.00</b>    | <b>520.00</b>      | 5.20               | <b>362.00</b>     | <b>337.00</b>      | <b>282.00</b>    | <b>276.00</b>    | 240.00           | <b>270.00</b>    |
| 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)**

| <b>Metals (µg/l)</b>              | 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                           | <b>67.6</b>      | <b>71.0</b>      | <b>67.9</b>      | <b>75.4</b>      | ND(11.0)        | <b>66.6</b>      | <b>59.1</b>      | ND(4.84)       | <b>64.2</b>      |
| 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             | <b>125.0</b>     | 2.13 J         | 2.48 J           |
| Iron                              | <b>4,580.0</b>   | <b>5,080.0</b>   | <b>5,180.0</b>   | <b>6,580.0</b>   | <b>721.0</b>    | <b>4,750.0</b>   | <b>4,370.0</b>   | <b>1,400.0</b> | <b>6,690.0</b>   |
| 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                            | <b>447,000.0</b> | <b>336,000.0</b> | <b>316,000.0</b> | <b>407,000.0</b> | <b>56,400.0</b> | <b>219,000.0</b> | <b>219,000.0</b> | 5,850.0        | <b>263,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                  |                  |                  |                 |                  |                  |                |                  |
| Ammonia                           | <b>180.000</b>   | <b>170.000</b>   | <b>150.000</b>   | <b>160.000</b>   | ND(0.2)         | <b>55.000</b>    | <b>39.000</b>    | <b>110.000</b> | <b>34.000</b>    |
| Bicarbonate                       | 1,400.00         | 1,500.00         | 1,300.00         | 1,300.00         | 820.00          | 880.00           | 900.00           | 870.00         | 990.00           |
| Chloride                          | <b>260.00</b>    | 210.00           | <b>270.00</b>    | 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)**

| <b>Metals (µg/l)</b>              | 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                           | <b>61.7</b>      | <b>29.7</b>     | <b>67.1</b>      | <b>42.0</b>     | <b>29.0</b>     | <b>42.0</b>     | <b>46.0</b>     | <b>45.8</b>     | <b>40.5</b>     |
| 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                              | <b>6,390.0</b>   | <b>13,000.0</b> | <b>6,810.0</b>   | <b>19,700.0</b> | <b>14,400.0</b> | <b>3,850.0</b>  | <b>2,800.0</b>  | <b>1,230.0</b>  | <b>5,180.0</b>  |
| 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                            | <b>349,000.0</b> | <b>33,400.0</b> | <b>170,000.0</b> | <b>30,600.0</b> | <b>26,900.0</b> | <b>93,600.0</b> | <b>63,800.0</b> | <b>68,800.0</b> | <b>70,600.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                 |                  |                 |                 |                 |                 |                 |                 |
| Ammonia                           | <b>140.000</b>   | <b>3.73</b>     | <b>80.000</b>    | <b>16.800</b>   | <b>16.000</b>   | <b>74.000</b>   | <b>55.000</b>   | <b>56.00</b>    | <b>71.00</b>    |
| 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)**

| <b>Metals (µg/l)</b>              | 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                           | <b>49.0</b>     | <b>46.0</b>     | <b>48.0</b>     | <b>48.0</b>     | <b>49.9</b>     | <b>48.0</b>     | <b>34.7</b>     | <b>49.0</b>      | <b>39.2</b>     |
| 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                              | <b>10,400.0</b> | <b>10,600.0</b> | <b>10,000.0</b> | <b>11,000.0</b> | <b>12,000.0</b> | <b>12,000.0</b> | <b>15,000.0</b> | <b>16,000.0</b>  | <b>13,000.0</b> |
| 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        | <b>18,600.0</b> | 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                            | <b>87,100.0</b> | <b>92,500.0</b> | <b>92,000.0</b> | <b>83,000.0</b> | <b>74,000.0</b> | <b>78,000.0</b> | <b>14,000.0</b> | <b>110,000.0</b> | <b>66,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                  |                 |
| Ammonia                           | <b>79.00</b>    | <b>48.000</b>   | <b>41.70</b>    | <b>38.3</b>     | <b>35.0</b>     | <b>39.0</b>     | <b>8.8</b>      | <b>34.0</b>      | <b>32.6</b>     |
| 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)

| <b>Metals (µg/l)</b>              | 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                           | <b>45.0</b>     | <b>51.7</b>     | <b>170.0</b>    | <b>56.0</b>     | <b>96.0</b>     | <b>61.0</b>     | <b>84.0</b>     | <b>57.0</b>      | <b>78.0</b>     |
| 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)          | <b>ND(5.0)</b>  |
| 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         | <b>44,500.0</b> |
| 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)         | <b>ND(10.0)</b> |
| Iron                              | <b>16,000.0</b> | <b>15,000.0</b> | <b>31,000.0</b> | <b>18,000.0</b> | <b>22,600.0</b> | <b>13,300.0</b> | <b>25,200.0</b> | <b>23,500.0</b>  | <b>21,600.0</b> |
| 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)         | <b>3.0 J</b>    |
| 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         | <b>16,100.0</b> |
| Mercury                           | ND(0.2)         | 0.2             | ND(0.2)         | ND(0.2)         | ND(0.2)         | ND(0.2)         | ND(0.2)         | ND(0.2)          | <b>ND(0.1)</b>  |
| 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         | <b>38,400.0</b> |
| Sodium                            | <b>68,000.0</b> | <b>81,000.0</b> | <b>74,000.0</b> | <b>85,000.0</b> | <b>73,500.0</b> | <b>77,500.0</b> | <b>99,900.0</b> | <b>110,000.0</b> | <b>81,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                  |                 |
| Ammonia                           | <b>31.90</b>    | <b>30.00</b>    | <b>30.800</b>   | <b>34.0</b>     | <b>27.3</b>     | <b>30.3</b>     | <b>32.7</b>     | <b>38.9</b>      | <b>25.4</b>     |
| 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)

| <b>Metals (µg/l)</b>              | 6/20            | 10/20     |  |  |  |  |  |  |  |
|-----------------------------------|-----------------|-----------|--|--|--|--|--|--|--|
| Aluminum                          | ND(100.0)       | 79.0 J    |  |  |  |  |  |  |  |
| Arsenic                           | <b>50.0</b>     | ND(5.0)   |  |  |  |  |  |  |  |
| Cadmium                           | ND5.0)          | ND(5.0)   |  |  |  |  |  |  |  |
| Calcium                           | 39,700.0        | 19,500.0  |  |  |  |  |  |  |  |
| Chromium                          | ND(10.0)        | ND(10.0)  |  |  |  |  |  |  |  |
| Iron                              | <b>20,400.0</b> | 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                            | <b>69,200.0</b> | 10,100.0  |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |                 |           |  |  |  |  |  |  |  |
| Ammonia                           | <b>26.90</b>    | 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**

| <b>Metals (µg/l)</b>              | 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                           | <b>49.4</b>      | <b>58.9</b>        | <b>44.3</b>        | <b>34.9</b>        | <b>52.7</b>        | <b>64.0</b>      | <b>58.3</b>      | <b>52.8</b>      | <b>54.7</b>      |
| 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                              | <b>1,960.0</b>   | <b>1,930.0</b>     | <b>1,510.0</b>     | <b>9,060.0</b>     | <b>9,690.0</b>     | <b>11,300.0</b>  | <b>12,900.0</b>  | <b>8,710.0</b>   | <b>13,600.0</b>  |
| Lead                              | 3.4              | 2.1 B              | 3.1                | ND(1.1)            | 1.7 B              | ND(4.0)          | ND(3.0)          | <b>147.0</b>     | 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                            | <b>391,000.0</b> | <b>411,000.0 E</b> | <b>302,000.0 E</b> | <b>177,000.0 E</b> | <b>163,000.0 E</b> | <b>152,000.0</b> | <b>142,000.0</b> | <b>160,000.0</b> | <b>102,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                    |                    |                    |                    |                  |                  |                  |                  |
| Ammonia                           | <b>221.000</b>   | <b>204.000</b>     | <b>195.000</b>     | <b>115.000</b>     | <b>84.000</b>      | <b>106.000</b>   | <b>80.000</b>    | <b>90.000</b>    | <b>65.000</b>    |
| Bicarbonate                       |                  | 1,450.00           | 1,180.00           | 814.00             | 724.00             | 680.00           | 597.00           | 560.00           | 420.00           |
| Chloride                          | <b>363.00</b>    | <b>255.00</b>      | <b>337.00</b>      | 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)**

| <b>Metals (µg/l)</b>              | 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                           | <b>113.0</b>     | <b>70.4</b>      | <b>29.3</b>     | <b>56.7</b>      | <b>75.1</b>      | 6.0 J           | 41.9            | ND(4.84)      | <b>40.6</b>     |
| 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                          | <b>83.9</b>      | ND(5.0)          | ND(0.6)         | 5.8 B            | 4.4 B            | 2.2 J           | 25.1            | 1.3 J         | ND(0.343)       |
| Iron                              | <b>23,700.0</b>  | <b>13,900.0</b>  | <b>3,770.0</b>  | <b>7,770.0</b>   | <b>6,640.0</b>   | 191.0           | <b>7,400.0</b>  | 81.8          | <b>12,200.0</b> |
| 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                            | <b>120,000.0</b> | <b>119,000.0</b> | <b>92,400.0</b> | <b>156,000.0</b> | <b>254,000.0</b> | <b>64,300.0</b> | <b>54,100.0</b> | 4,640.0 J     | <b>66,400.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                  |                 |                  |                  |                 |                 |               |                 |
| Ammonia                           | <b>50.000</b>    | <b>71.000</b>    | <b>51.000</b>   | <b>61.000</b>    | 0.500            | <b>21.000</b>   | <b>39.000</b>   | <b>37.000</b> | <b>34.000</b>   |
| 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)**

| <b>Metals (µg/l)</b>              | 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                           | <b>28.5</b>    | <b>34.8</b>      | <b>36.0</b>     | <b>59.0</b>      | <b>45.0</b>      | <b>25.0</b>     | <b>33.0</b>     | <b>33.8</b>     | <b>30.3</b>     |
| 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                              | <b>9,210.0</b> | <b>5,290.0</b>   | <b>13,100.0</b> | <b>7,500.0</b>   | <b>5,530.0</b>   | <b>14,600.0</b> | <b>20,200.0</b> | 170.0           | <b>22,900.0</b> |
| 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                            | <b>60.0</b>    | <b>169,000.0</b> | <b>49,600.0</b> | <b>118,000.0</b> | <b>105,000.0</b> | <b>21,200.0</b> | 19,000.0        | <b>31,200.0</b> | <b>27,800.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                |                  |                 |                  |                  |                 |                 |                 |                 |
| Ammonia                           | 0.470          | <b>53.000</b>    | <b>26.000</b>   | <b>79.800</b>    | <b>77.000</b>    | <b>15.000</b>   | <b>12.000</b>   | <b>17.00</b>    | <b>21.00</b>    |
| 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)

| <b>Metals (µg/l)</b>              | 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                           | <b>33.0</b>     | 13.0           | <b>40.0</b>     | <b>33.0</b>     | 14.6           | <b>32.0</b>     | <b>56.6</b>     | <b>39.9</b>     | <b>49.9</b>     |
| 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        | <b>22,000.0</b> | 13,000.0        | 12,000.0        |
| Chromium                          | ND(1.0)         | 4.0            | ND(10.0)        | ND(10.0)        | 3.8 J          | 3.0 J           | <b>2.1 J</b>    | 4.7 J           | 2.9 J           |
| Iron                              | <b>21,800.0</b> | <b>7,150.0</b> | <b>23,000.0</b> | <b>20,000.0</b> | <b>5,600.0</b> | <b>18,000.0</b> | <b>13,000.0</b> | <b>18,000.0</b> | <b>31,000.0</b> |
| Lead                              | ND(2.0)         | ND(0.2)        | ND(10.0)        | ND(10.0)        | ND(10.0)       | ND(10.0)        | <b>2.9 J</b>    | 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         | <b>12,000.0</b> | 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)         | <b>ND(0.2)</b>  | 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        | <b>39,000.0</b> | 12,000.0        | 10,000.0        |
| Sodium                            | <b>31,200.0</b> | 16,100.0       | <b>24,000.0</b> | 19,000.0        | 18,000.0       | <b>21,000.0</b> | <b>58,000.0</b> | 14,000.0        | 12,000.0        |
| <b>Leachate Indicators (mg/l)</b> |                 |                |                 |                 |                |                 |                 |                 |                 |
| Ammonia                           | <b>22.00</b>    | <b>4.50</b>    | <b>10.70</b>    | <b>7.4</b>      | <b>3.3</b>     | <b>11.5</b>     | <b>35.7</b>     | <b>9.2</b>      | <b>6.3</b>      |
| 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)**

| <b>Metals (µg/l)</b>              | 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                           | <b>41.0</b>     | <b>48.7</b>     | <b>30.0</b>     | <b>49.0</b>     | 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                              | <b>23,000.0</b> | <b>21,000.0</b> | <b>22,000.0</b> | <b>23,000.0</b> | <b>808.0</b> | 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 |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |              |          |            |          |          |
| Ammonia                           | <b>6.73</b>     | <b>5.18</b>     | <b>7.570</b>    | <b>8.14</b>     | 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)   | <b>44.0</b>     |  |  |  |  |  |  |  |
| Cadmium                           | ND(5.0)   | ND(5.0)         |  |  |  |  |  |  |  |
| Calcium                           | 19,900.0  | 36,800.0        |  |  |  |  |  |  |  |
| Chromium                          | ND(10.0)  | ND(10.0)        |  |  |  |  |  |  |  |
| Iron                              | 61.0      | <b>18,400.0</b> |  |  |  |  |  |  |  |
| 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  | <b>69,700.0</b> |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |           |                 |  |  |  |  |  |  |  |
| Ammonia                           | 0.096     | <b>22.30</b>    |  |  |  |  |  |  |  |
| 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) |
| ND(0.7) |
| ND(0.4) |
| ND(0.4) |
| ND(0.4) |
| ND(0.2) |
| ND(0.4) |
| ND(0.3) |
| ND(0.3) |
| ND(0.3) |
| ND(0.3) |
| ND(0.3) |
| ND(0.4) |
| ND(0.3) |
| ND(0.4) |
| ND(0.3) |
| ND(0.3) |
| ND(0.3) |
| ND(0.2) |
| ND(0.3) |
| ND(1.1) |
| ND(0.3) |
| ND(0.3) |
| 3.7     |
| ND(0.3) |
| ND(0.2) |
| ND(0.4) |
| ND(0.2) |
| ND(0.4) |
| ND(0.3) |

|          |
|----------|
| 4/05     |
| ND(0.45) |
| ND(1.30) |
| ND(0.62) |
| ND(1.10) |
| ND(0.98) |
| ND(0.58) |
| ND(0.28) |
| ND(0.33) |
| ND(0.40) |
| ND(0.18) |
| ND(0.28) |
| ND(0.17) |
| ND(0.34) |
| ND(0.30) |
| ND(0.27) |
| ND(0.26) |
| ND(0.59) |
| ND(0.35) |
| ND(0.22) |
| ND(0.29) |
| ND(0.24) |
| ND(6.20) |
| ND(0.22) |
| ND(0.35) |
| ND(0.74) |
| ND(0.38) |
| ND(0.47) |
| ND(0.50) |
| ND(0.67) |
| ND(0.35) |
| ND(0.79) |



|            |
|------------|
| 4/15       |
| ND(5.00)   |
| ND(5.00)   |
| ND(1.00)   |
| ND(2.00)   |
| ND(5.00)   |
| ND(5.00)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(1.50)   |
| ND(1.50)   |
| ND(1.50)   |
| ND(2.00)   |
| ND(1.00)   |
| ND(1.00)   |
| ND(3.50)   |
| ND(1.50)   |
| ND(1.00)   |
| ND(1.00)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(1.50)   |
| ND(10.00)  |
| ND(1.00)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(1.00)   |
| ND(3.50)   |
| ND(1.00)   |
| ND(5.00)   |
| ND(5.00)   |
| ND(5.00)   |
| ND(10.00)  |
| ND(100.00) |
| ND(1.00)   |

|            |
|------------|
| 9/19       |
| ND(5.00)   |
| ND(5.00)   |
| ND(1.00)   |
| ND(2.00)   |
| ND(5.00)   |
| ND(5.00)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(1.50)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(2.00)   |
| ND(1.00)   |
| ND(1.00)   |
| ND(3.50)   |
| ND(1.50)   |
| ND(1.00)   |
| ND(1.00)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(1.50)   |
| ND(10.00)  |
| ND(1.00)   |
| ND(1.00)   |
| ND(1.50)   |
| ND(1.00)   |
| ND(3.50)   |
| ND(1.00)   |
| ND(5.00)   |
| ND(5.00)   |
| ND(5.00)   |
| 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**

| <b>Metals (µg/l)</b>              | <b>6/96</b>     | <b>4/97</b>       | <b>9/97</b>       | <b>4/98</b>       | <b>9/98</b>       | <b>4/99</b>     | <b>9/99</b>     | <b>4/00</b>     | <b>9/00</b>     |
|-----------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| 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                              | <b>416.0</b>    | 263.0             | <b>346.0</b>      | 109.0 B           | <b>484.0</b>      | <b>390.0</b>    | 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                            | <b>34,900.0</b> | <b>31,700.0 E</b> | <b>31,800.0 E</b> | <b>23,500.0 E</b> | <b>24,400.0 E</b> | <b>22,500.0</b> | <b>29,500.0</b> | <b>27,600.0</b> | <b>24,800.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                   |                   |                   |                   |                 |                 |                 |                 |
| Ammonia                           | <b>2.520</b>    | ND(0.050)         | 1.190             | 1.100             | <b>4.900</b>      | 0.740           | <b>7.400</b>    | 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)**

| <b>Metals (µg/l)</b>              | 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                            | <b>31,300.0</b> | NA   | <b>20,900.0</b> | <b>22,300.0</b> | <b>23,500.0</b> | <b>31,800.0</b> | <b>22,800.0</b> | <b>22,300.0</b> | <b>21,100.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |      |                 |                 |                 |                 |                 |                 |                 |
| 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)**

| <b>Metals (µg/l)</b>              | 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                            | <b>21,100.0</b> | 19,400.0  | <b>22,700.0</b> | <b>20,300.0</b> | <b>23,400.0</b> | <b>22,300.0</b> | <b>23,100.0</b> | <b>23,700.0</b> | <b>17,200.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |           |                 |                 |                 |                 |                 |                 |                 |
| Ammonia                           | <b>34.000</b>   | 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    | <b>350.0</b> | 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      | <b>46,000.0</b> |
| 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  | <b>22,000.0</b> | <b>39,000.0</b> | <b>21,000.0</b> | 40,000.0 | 15,000.0     | <b>27,000.0</b> |
| 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    | <b>11.00</b> | 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)

| <b>Metals (µg/l)</b>              | 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           | <b>49.0</b>      | 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     | <b>300.0</b>    | <b>361.0</b>    | <b>1,870.0</b>   | <b>79.0</b>     | <b>700.0</b>    | 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                            | <b>20,000.0</b> | <b>25,000.0</b> | 13,000.0  | <b>56,000.0</b> | <b>27,400.0</b> | <b>115,000.0</b> | <b>34,800.0</b> | <b>30,900.0</b> | <b>30,800.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |           |                 |                 |                  |                 |                 |                 |
| Ammonia                           | 0.027 J         | 0.15            | 0.039 J   | 0.075           | 0.039J          | 0.089            | 0.038 J         | 0.127           | <b>0.081</b>    |
| 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)**

| <b>Metals (µg/l)</b>              | 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                            | <b>22,800.0</b> | <b>21,500.0</b> |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |  |  |  |  |  |  |  |
| 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)  | <b>17.0</b> | <b>23.0</b> | 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       | <b>5.2</b>  | 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          | <b>5.5</b> | ND(3.0) | 4.0     | ND(5.0)  | 5.0 J       | 4.6         | <b>5.5</b> | 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**

| <b>Metals (µg/l)</b>              | <b>6/96</b>     | <b>4/97</b>       | <b>9/97</b>       | <b>4/98</b>    | <b>9/98</b>       | <b>4/99</b>     | <b>9/99</b>     | <b>4/00</b>     | <b>9/00</b>     |
|-----------------------------------|-----------------|-------------------|-------------------|----------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| 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                              | <b>8,160.0</b>  | <b>7,720.0</b>    | <b>7,650.0</b>    | <b>2,700.0</b> | <b>9,220.0</b>    | <b>10,100.0</b> | <b>9,590.0</b>  | <b>5,530.0</b>  | <b>5,710.0</b>  |
| 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                            | <b>34,800.0</b> | <b>28,000.0 E</b> | <b>31,500.0 E</b> | 2,310.0 BE     | <b>40,200.0 E</b> | <b>46,500.0</b> | <b>51,100.0</b> | <b>27,400.0</b> | <b>42,300.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                   |                   |                |                   |                 |                 |                 |                 |
| Ammonia                           | <b>4.700</b>    | 1.650             | 1.810             | ND(0.200)      | <b>6.200</b>      | <b>5.990</b>    | 1.140           | ND(0.200)       | <b>4.500</b>    |
| 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)**

| <b>Metals (µg/l)</b>              | 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                              | <b>1,070.0</b> | <b>2,210.0</b> | <b>2,340.0</b> | <b>398.0</b> | <b>2,540.0</b> | 237.0     | <b>310.0</b> | 197.0     | <b>1,570.0</b> |
| Lead                              | 4.8            | 14.9           | 9.1            | 10.6         | <b>35.1</b>    | 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      |
| <b>Leachate Indicators (mg/l)</b> |                |                |                |              |                |           |              |           |                |
| 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)

| <b>Metals (µg/l)</b>              | 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)    | <b>7.5</b>     | 2.3 J          | <b>7.0</b>   | 1.0      | 0.6 B    | 0.7 B    | <b>6.9</b>   |
| 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                              | <b>2,850.0</b> | <b>582.0</b> | <b>3,490.0</b> | <b>1,700.0</b> | <b>862.0</b> | 11.0     | 12.0     | 6.0      | <b>825.0</b> |
| Lead                              | <b>42.3</b>    | ND(2.18)     | <b>205.0</b>   | <b>55.0</b>    | 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     |
| <b>Leachate Indicators (mg/l)</b> |                |              |                |                |              |          |          |          |              |
| 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)

| <b>Metals (µg/l)</b>              | 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        | <b>8.0</b>     | <b>5.0</b>   | 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                              | <b>397.0</b> | <b>530.0</b> | <b>540.0</b> | <b>1,700.0</b> | <b>650.0</b> | <b>680.0</b> | 600.0    | <b>1,200.0</b> | <b>970.0</b> |
| Lead                              | 4.0          | ND(2.0)      | 3.0 J        | <b>32.0</b>    | 10.2         | 15.6         | 12.6     | 11.1           | <b>37.8</b>  |
| 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      |
| <b>Leachate Indicators (mg/l)</b> |              |              |              |                |              |              |          |                |              |
| 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)**

| <b>Metals (µg/l)</b>              | 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        | <b>11.0</b>    | 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                              | <b>300.0</b> | 130.0     | 110.0     | <b>660.0</b> | <b>1,530.0</b> | <b>417.0</b> | <b>7,770.0</b> | <b>573.0</b> | <b>514.0</b> |
| 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      |
| <b>Leachate Indicators (mg/l)</b> |              |           |           |              |                |              |                |              |              |
| 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)

| <b>Metals (µg/l)</b>              | 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                              | <b>982.0</b> | 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   |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |              |           |  |  |  |  |  |  |  |
| 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**

| <b>Metals (µg/l)</b>              | 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  |
| <b>Leachate Indicators (mg/l)</b> |           |            |            |            |            |           |            |           |           |
| 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)**

| <b>Metals (µg/l)</b>              | 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     | <b>114.0</b> | ND(1.22)  | 2.42 J    |
| Iron                              | 275.0     | 18.3 B    | ND(17.3)  | 45.9 B    | 72.9 B    | 78.1 J    | <b>409.0</b> | 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  |
| <b>Leachate Indicators (mg/l)</b> |           |           |           |           |           |           |              |           |           |
| 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)

| <b>Metals (µg/l)</b>              | 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 |
| <b>Leachate Indicators (mg/l)</b> |           |           |           |           |          |          |           |          |          |
| 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)

| <b>Metals (µg/l)</b>              | 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  |
| <b>Leachate Indicators (mg/l)</b> |          |          |           |           |           |          |           |           |           |
| 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)**

| <b>Metals (µg/l)</b>              | 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  |
| <b>Leachate Indicators (mg/l)</b> |           |           |           |           |           |            |            |           |           |
| 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)

| <b>Metals (µg/l)</b>              | 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  |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |           |           |  |  |  |  |  |  |  |
| 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      | <b>6.2</b> | <b>6.0</b> | <b>7.0</b> | <b>7.0</b> | <b>6.0</b> | <b>5.3</b> | <b>2.7</b> | <b>5.3</b> | <b>6.7</b> |
| 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**

| <b>Metals (µg/l)</b>              | <b>6/96</b> | <b>4/97</b> | <b>9/97</b> | <b>4/98</b> | <b>9/98</b> | <b>4/99</b> | <b>9/99</b> | <b>4/00</b> | <b>9/00</b> |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 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    |
| <b>Leachate Indicators (mg/l)</b> |             |             |             |             |             |             |             |             |             |
| 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     | <b>64.6</b> | 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  |
| <b>Leachate Indicators (mg/l)</b> |           |           |           |           |           |           |             |           |           |
| 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 | <b>20,200.0</b> | <b>19,200.0</b> | <b>19,400.0</b> |
| 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     | <b>10.00</b>    | 9.90            | <b>10.00</b>    |
| 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          | <b>28.8</b>     |
| 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                       | <b>3,510.0</b>  | NA    | <b>4,700.0</b>  | <b>410.0</b>    | <b>4,000.0</b> | <b>3,600.0</b> | 110.0     | <b>2,900.0</b> | <b>20,000.0</b> |
| 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                     | <b>20,800.0</b> | NA    | <b>24,000.0</b> | <b>24,000.0</b> | 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                    | <b>10.00</b>    | 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)

| <b>Metals (µg/l)</b>              | 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)        | <b>60.0</b>     | ND(5.0)        | ND(5.0)      | <b>ND(5.0)</b>   |
| Cadmium                           | <b>8.2</b>     | 1.0 J        | 1.0 J          | 1.0 J          | 1.0 J          | <b>53.0</b>     | 1.0 J          | ND(5.0)      | <b>ND(5.0)</b>   |
| 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      | <b>4,220.0</b>   |
| Chromium                          | 2.4 J          | ND(10.0)     | ND(10.00)      | 3.0 J          | ND(10.0)       | 26.0            | ND(10.0)       | ND(10.0)     | <b>ND(10.0)</b>  |
| Iron                              | <b>8,600.0</b> | <b>490.0</b> | <b>2,600.0</b> | <b>3,900.0</b> | <b>2,660.0</b> | <b>15,300.0</b> | <b>7,340.0</b> | <b>730.0</b> | <b>760.0</b>     |
| Lead                              | ND(10.0)       | 3.0 J        | 3.0 J          | ND(10.0)       | ND(10.0)       | 17.0            | 18.0           | ND(10.0)     | <b>ND(10.0)</b>  |
| Magnesium                         | 2,100.0        | 620.0        | 2,500.0        | 1,300.0        | 1,490.0        | 951.0           | 1,140.0        | 492.0        | <b>723.0</b>     |
| Mercury                           | ND(0.2)        | 0.2          | ND(0.2)        | ND(0.2)        | ND(0.2)        | ND(0.2)         | ND(0.2)        | ND(0.2)      | <b>ND(0.1)</b>   |
| 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      | <b>2,990.0</b>   |
| 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      | <b>1,460.0 J</b> |
| <b>Leachate Indicators (mg/l)</b> |                |              |                |                |                |                 |                |              |                  |
| Ammonia                           | 0.45           | 0.034 J      | 0.394          | 0.134          | 0.163          | 0.040 J         | 0.175          | 0.168        | <b>0.395</b>     |
| 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)      | <b>100.0 J</b> |  |  |  |  |  |  |  |
| Calcium                           | 4,480.0      | 5,090.0        |  |  |  |  |  |  |  |
| Chromium                          | ND(10.0)     | ND(10.0)       |  |  |  |  |  |  |  |
| Iron                              | <b>760.0</b> | <b>2,160.0</b> |  |  |  |  |  |  |  |
| 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        |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |              |                |  |  |  |  |  |  |  |
| 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**

| <b>Metals (µg/l)</b>              | 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     | <b>563.0</b>      | 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   | <b>32,600.0 E</b> | <b>26,200.0 E</b> | <b>23,800.0 E</b> | <b>26,800.0 E</b> | <b>23,000.0</b> | <b>20,200.0</b> | <b>26,200.0</b> | <b>26,900.0</b> |
| <b>Leachate Indicators (mg/l)</b> |           |                   |                   |                   |                   |                 |                 |                 |                 |
| 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      | <b>13.00</b>      | 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                          | <b>430.0</b>    | 41.3            | 14.1            | 46.2            | 22.8            | 37.8            | 7.9 J           | 7.8 J           | 2.74 J          |
| Iron                              | <b>2,100.0</b>  | <b>1,280.0</b>  | 207.0           | <b>468.0</b>    | 249.0           | <b>482.0</b>    | 66.6 J          | <b>381.0</b>    | 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                            | <b>33,400.0</b> | <b>28,100.0</b> | <b>26,100.0</b> | <b>30,100.0</b> | <b>34,300.0</b> | <b>27,900.0</b> | <b>25,200.0</b> | <b>24,200.0</b> | <b>32,900.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Ammonia                           | ND(0.200)       | ND(0.200)       | ND(0.200)       | ND(0.200)       | ND(0.200)       | 0.400           | 2.500           | <b>0.356</b>    | 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)

| <b>Metals (µg/l)</b>              | 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                            | <b>26,400.0</b> | <b>26,900.0</b> | <b>27,500.0</b> | <b>23,100.0</b> | <b>24,200.0</b> | <b>23,100.0</b> | <b>26,700.0</b> | <b>31,000.0</b> | <b>28,800.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 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)

| <b>Metals (µg/l)</b>              | 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            | <b>51.0</b>     | 4.0 J           | 8.0 J           | <b>100.0</b>    | <b>100.0</b>    | 340.0     | 11.0            | 10.0            |
| Iron                              | 116.0           | <b>470.0</b>    | 70.0            | 140.0           | <b>770.0</b>    | 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                            | <b>34,800.0</b> | <b>65,000.0</b> | <b>37,000.0</b> | <b>32,000.0</b> | <b>34,000.0</b> | <b>39,000.0</b> | 35,000.0  | <b>39,000.0</b> | <b>40,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |           |                 |                 |
| 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)

| <b>Metals (µg/l)</b>              | 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                          | <b>210.0</b>    | 10.0            | 25.0            | <b>60.0</b>     | <b>55.0</b>     | <b>258.0</b>    | 26.0            | 3.0 J           | 4.0 J           |
| Iron                              | <b>1,900.0</b>  | <b>360.0</b>    | 250.0           | <b>550.0</b>    | <b>493.0</b>    | <b>1,410.0</b>  | 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                            | <b>35,000.0</b> | <b>40,000.0</b> | <b>37,000.0</b> | <b>39,000.0</b> | <b>39,400.0</b> | <b>46,700.0</b> | <b>44,200.0</b> | <b>42,400.0</b> | <b>42,500.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Ammonia                           | 0.032 J         | 0.08            | ND(0.075)       | 0.061 J         | ND(0.075)       | ND (0.075)      | ND (0.075)      | 0.034 J         | <b>0.052 J</b>  |
| 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)

| <b>Metals (µg/l)</b>              | 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                          | <b>191.0</b>    | <b>217.0</b>    |  |  |  |  |  |  |  |
| Iron                              | <b>1,200.0</b>  | <b>1,750.0</b>  |  |  |  |  |  |  |  |
| 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                            | <b>44,300.0</b> | <b>43,900.0</b> |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |  |  |  |  |  |  |  |
| 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)     | <b>5.0</b>  | <b>9.0</b>  | <b>14.0</b> | 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          | <b>12.0</b> | <b>11.0</b> | <b>12.0</b> | <b>12.0</b> | <b>12.0</b> | <b>9.3</b>  | <b>13.0</b> | <b>12.0</b> | <b>12.0</b> |
| 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)  |

[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**

| <b>Metals (µg/l)</b>              | <b>6/96</b>     | <b>4/97</b>       | <b>9/97</b>       | <b>4/98</b>       | <b>9/98</b>       | <b>4/99</b>     | <b>9/99</b>     | <b>4/00</b>     | <b>9/00</b>     |
|-----------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| 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            | <b>736.0 B</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        | <b>39,900.0</b>   | <b>35,100.0</b>   | 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                            | <b>66,100.0</b> | <b>81,100.0 E</b> | <b>83,200.0 E</b> | <b>72,000.0 E</b> | <b>78,700.0 E</b> | <b>76,100.0</b> | <b>66,700.0</b> | <b>78,600.0</b> | <b>74,100.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                   |                   |                   |                   |                 |                 |                 |                 |
| 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            | <b>649.00</b>     | 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)**

| <b>Metals (µg/l)</b>              | <b>4/01</b>     | <b>9/07</b>     | <b>4/02</b>     | <b>9/02</b>     | <b>5/03</b>     | <b>10/03</b>    | <b>6/04</b>     | <b>10/04</b>    | <b>4/05</b>     |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 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                            | <b>83,000.0</b> | <b>72,300.0</b> | <b>67,400.0</b> | <b>71,600.0</b> | <b>61,800.0</b> | <b>40,600.0</b> | <b>57,100.0</b> | <b>54,100.0</b> | <b>60,600.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 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)

| <b>Metals (µg/l)</b>              | 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)        | <b>52.0</b>     | 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                            | <b>58,000.0</b> | <b>46,300.0</b> | <b>65,200.0</b> | <b>48,200.0</b> | <b>47,800.0</b> | <b>48,800.0</b> | <b>31,800.0</b> | <b>29,700.0</b> | <b>26,400.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 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            | <b>11.00</b>    | 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    | <b>960.0</b>    | 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                     | <b>31,500.0</b> | NA    | <b>28,000.0</b> | <b>32,000.0</b> | <b>33,000.0</b> | <b>34,000.0</b> | <b>36,000.0</b> | <b>37,000.0</b> | <b>39,000.0</b> |
| 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            | <b>1,820.0</b> | 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                     | <b>46,000.0</b> | <b>45,000.0</b> | <b>42,000.0</b> | <b>48,000.0</b> | <b>46,900.0</b> | 4,930.0        | <b>52,900.0</b> | <b>52,100.0</b> | <b>54,400.0</b> |
| 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           | <b>0.107</b>    |
| 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)

| <b>Metals (µg/l)</b>              | 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                            | <b>51,500.0</b> | <b>52,300.0</b> |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |  |  |  |  |  |  |  |
| 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)    | <b>3.0</b>  | ND(1.0)     | <b>3.0 J</b> | <b>4.0 J</b> | 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)     | <b>32.0</b>  | <b>32.0</b>  | <b>27.0</b> | 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            | <b>5.2</b>  | <b>8.0</b>  | <b>9.0</b>  | <b>9.0</b>   | <b>9.0</b>   | <b>6.9</b>  | 3.5         | <b>7.6</b>  | <b>5.2</b>  |
| 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)     | <b>0.8</b>  |
| 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          | <b>14.0</b> | <b>38.0</b> | <b>32.0</b> | <b>35.0</b>  | <b>35.0</b>  | <b>22.0</b> | <b>28.0</b> | <b>27.0</b> | <b>25.0</b> |
| 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             | <b>3.8 J</b> | 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            | <b>5.8</b>   | <b>5.7</b>   | <b>7.8</b> | <b>8.9</b> | ND(5.00)   | ND(5.00)   | <b>6.1</b> | <b>5.0</b> | <b>6.00</b> |
| 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          | <b>10.0</b>  | ND(0.74)     | 2.3 J      | 0.91 J     | <b>5.3</b> | <b>5.2</b> | 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)     | <b>3.4 J</b> | ND(0.65)   | ND(5.00)   | ND(5.00)   | ND(5.00)   | ND(5.00)   | ND(5.00)   | ND(5.00)    |
| 1,4-Dichlorobenzene        | <b>3.2 J</b> | 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    | <b>5.90 J</b> | 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    | <b>5.5</b>    | ND(1.00)   | ND(1.00)   | ND(1.00)   | ND(1.00)   | ND(1.00)   | ND(1.00)   |



## EN7-M (continued)

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

## EN7-M (continued)

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

Note:

ND( ): Compound not detected at method detection limit

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

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

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

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

| <b>Metals (µg/l)</b>              | <b>6/96</b>      | <b>4/97</b>        | <b>9/97</b>        | <b>4/98</b>        | <b>9/98</b>        | <b>4/99</b>      | <b>9/99</b>      | <b>4/00</b>      | <b>9/00</b>      |
|-----------------------------------|------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|
| 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         | <b>36,300.0</b>    | <b>36,800.0</b>    | 33,200.0 E         | 33,800.0 E         | 33,100.0         | <b>35,600.0</b>  | <b>36,400.0</b>  | 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                            | <b>110,000.0</b> | <b>135,000.0 E</b> | <b>168,000.0 E</b> | <b>150,000.0 E</b> | <b>164,000.0 E</b> | <b>192,000.0</b> | <b>183,000.0</b> | <b>252,000.0</b> | <b>247,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                    |                    |                    |                    |                  |                  |                  |                  |
| Ammonia                           | <b>2.520</b>     | 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           | <b>254.00</b>      | <b>253.00</b>      | <b>264.00</b>      | <b>253.00</b>      | <b>273.00</b>    | <b>278.00</b>    | <b>290.00</b>    | <b>270.00</b>    |
| 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           | <b>351.00</b>    | 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                         | <b>38,000.0</b>  | <b>36,000.0</b>  | 34,300.0         | 34,400.0         | 37,000.0         | 39,200.0         | <b>40,200.0</b>  | <b>36,100.0</b>  | <b>40,600.0</b>  |
| 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                            | <b>287,000.0</b> | <b>252,000.0</b> | <b>227,000.0</b> | <b>270,000.0</b> | <b>234,000.0</b> | <b>239,000.0</b> | <b>252,000.0</b> | <b>231,000.0</b> | <b>288,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 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                          | <b>270.00</b>    | <b>260.00</b>    | <b>270.00</b>    | <b>260.00</b>    | <b>280.00</b>    | <b>270.00</b>    | <b>270.00</b>    | <b>270.00</b>    | <b>280.00</b>    |
| 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           | <b>320.00</b>    | <b>350.00</b>    | 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)        | <b>98.8</b>      | 12.7             | ND(10.0)         | ND(1.0)          | 2.0              | ND(1.0)          | ND(1.0)          | 2.2              |
| Iron                       | 40.9 J           | <b>352.0</b>     | 102.0            | 120.0            | 204.0            | 84.0             | 92.0             | 46.0             | <b>513.0</b>     |
| 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                  | <b>40,900.0</b>  | <b>39,300.0</b>  | <b>57,900.0</b>  | <b>50,500.0</b>  | <b>52,300.0</b>  | <b>51,300.0</b>  | <b>51,100.0</b>  | <b>49,100.0</b>  | <b>49,100.0</b>  |
| 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                     | <b>301,000.0</b> | <b>266,000.0</b> | <b>300,000.0</b> | <b>173,000.0</b> | <b>228,000.0</b> | <b>227,000.0</b> | <b>211,000.0</b> | <b>212,000.0</b> | <b>187,000.0</b> |
| 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                   | <b>280.00</b>    | <b>280.00</b>    | <b>270.00</b>    | 239.00           | <b>280.00</b>    | <b>290.00</b>    | <b>280.00</b>    | 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                       | <b>397.0</b> | NA    | <b>540.0</b>     | 200.0           | <b>540.0</b>    | <b>1,400.0</b> | 550.0     | <b>8,800.0</b> | <b>780.0</b>     |
| Lead                       | ND(2.0)      | NA    | ND(10.0)         | ND(10.0)        | ND(10.0)        | 4.7 J          | 8.8 J     | <b>66.8</b>    | 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    | <b>280,000.0</b> | <b>30,000.0</b> | <b>20,000.0</b> | 9,400.0        | 6,400.0   | 5,700.0        | <b>190,000.0</b> |
| 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    | <b>250.00</b>    | 33.0            | 26.0            | 10.0           | 4.3       | 9.5            | <b>320.0</b>     |
| 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)

| <b>Metals (µg/l)</b>              | 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    | <b>1,100.0</b>  | <b>23,000.0</b>  | <b>3,100.0</b>   | 298.0           | <b>2,390.0</b>  | <b>1,110.0</b> | <b>2,160.0</b>  | <b>2,300.0</b> |
| Lead                              | 4.7 J    | 3.0 J           | <b>83.1</b>      | 3.0 J            | ND(10.0)        | 16.0            | 6.0 J          | 15.0            | 11.0           |
| Magnesium                         | 2,900.0  | 2,600.0         | <b>41,000.0</b>  | <b>38,000.0</b>  | 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 | <b>27,000.0</b> | <b>220,000.0</b> | <b>230,000.0</b> | <b>56,000.0</b> | <b>22,500.0</b> | <b>4,640.0</b> | <b>72,700.0</b> | 13,700.0       |
| <b>Leachate Indicators (mg/l)</b> |          |                 |                  |                  |                 |                 |                |                 |                |
| Ammonia                           | 0.31     | 0.24            | 0.495            | 0.566            | 0.117           | 0.024 J         | 0.109          | 0.169           | <b>0.186</b>   |
| 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)

| <b>Metals (µg/l)</b>              | 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                              | <b>480.0</b> | <b>335.0</b> |  |  |  |  |  |     |  |
| 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      |  |  |  |  |  |     |  |
| <b>Leachate Indicators (mg/l)</b> |              |              |  |  |  |  |  |     |  |
| Ammonia                           | 0.027 J      | 0.093        |  |  |  |  |  |     |  |
| Bicarbonate                       | 35.80        | 42.40        |  |  |  |  |  |     |  |
| Chloride                          | 5.50         | 8.30         |  |  |  |  |  |     |  |
| Nitrate                           | 0.455        | 0.686        |  |  |  |  |  |     |  |
| Sulfate                           | ND(10.0)     | 2.0 J        |  |  |  |  |  |     |  |
| Alkalinity                        | 35.80        | 42.40        |  |  |  |  |  |     |  |
| TDS                               | 50.00        | 92.00        |  |  |  |  |  |     |  |
| Hardness                          | 38.30        | 45.50        |  |  |  |  |  |     |  |

Note:

ND( ): Compound not detected at method detection limit

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

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

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

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

## EN9-M (continued)

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

## EN9-M (continued)

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



## EN9-M (continued)

| Parameter                  | 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**

| <b>Metals (µg/l)</b>              | <b>6/96</b>     | <b>4/97</b>     | <b>9/97</b> | <b>4/98</b>       | <b>9/98</b>       | <b>4/99</b>     | <b>9/99</b>     | <b>4/00</b> | <b>9/00</b>     |
|-----------------------------------|-----------------|-----------------|-------------|-------------------|-------------------|-----------------|-----------------|-------------|-----------------|
| 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                            | <b>23,100.0</b> | <b>23,400.0</b> | 16,200.0 E  | <b>20,100.0 E</b> | <b>27,500.0 E</b> | <b>33,000.0</b> | <b>36,700.0</b> | 16,700.0    | <b>33,200.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |             |                   |                   |                 |                 |             |                 |
| 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                            | <b>44,500.0</b> | <b>30,100.0</b> | <b>26,900.0</b> | 19,400.0  | 15,200.0  | <b>33,400.0</b> | <b>25,800.0</b> | <b>27,700.0</b> | <b>39,200.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |           |           |                 |                 |                 |                 |
| 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)

| <b>Metals (µg/l)</b>              | 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                            | <b>31,400.0</b> | <b>28,600.0</b> | <b>29,700.0</b> | <b>31,600.0</b> | <b>52,700.0</b> | <b>57,300.0</b> | <b>51,300.0</b> | <b>55,700.0</b> | <b>55,300.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 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)

| <b>Metals (µg/l)</b>              | 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                            | <b>63,100.0</b> | <b>41,700.0</b> | <b>83,000.0</b> | <b>67,000.0</b> | <b>49,000.0</b> | <b>59,000.0</b> | 68,000.0 | <b>56,000.0</b> | <b>68,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |          |                 |                 |
| 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)

| <b>Metals (µg/l)</b>              | 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                            | <b>74,000.0</b> | <b>49,000.0</b> | <b>80,000.0</b> | <b>92,000.0</b> | <b>78,100.0</b> | <b>72,900.0</b> | <b>69,000.0</b> | <b>58,900.0</b> | <b>35,000.0</b> |
| <b>Leachate Indicators (mg/l)</b> |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 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            | <b>572.0</b>    |  |  |  |  |  |  |  |
| 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                     | <b>59,400.0</b> | <b>43,700.0</b> |  |  |  |  |  |  |  |
| 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)**

## 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**

| <b>Metals (µg/l)</b>              | 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     | <b>319.0</b> | 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  |
| <b>Leachate Indicators (mg/l)</b> |              |            |            |            |            |           |              |           |           |
| 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                           | <b>10.10</b> | 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)**

| <b>Metals (µg/l)</b>              | 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    | <b>481.0</b> | <b>1,640.0</b> |
| Lead                              | ND(2.5)   | ND(3.0)   | 3.8       | 9.8       | ND(3.0)   | 4.2       | 4.6 J     | 11.3         | <b>33.8</b>    |
| 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       |
| <b>Leachate Indicators (mg/l)</b> |           |           |           |           |           |           |           |              |                |
| 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)**

| <b>Metals (µg/l)</b>              | 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        | <b>6.0</b>     | ND(1.0)   | ND(1.0)   | 9.4       | 7.8            |
| Iron                              | <b>1,170.0</b> | <b>40,800.0</b> | <b>437.0</b> | <b>400.0</b> | <b>1,500.0</b> | 24.0      | 206.0     | 279.0     | <b>1,610.0</b> |
| Lead                              | <b>69.8</b>    | <b>285.0</b>    | 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          |
| <b>Leachate Indicators (mg/l)</b> |                |                 |              |              |                |           |           |           |                |
| 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)

| <b>Metals (µg/l)</b>              | 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                              | <b>2,080.0</b> | <b>6,200.0</b> | <b>1,100.0</b> | 290.0     | 220.0   | <b>370.0</b> | 140.0     | <b>550.0</b> | 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 |
| <b>Leachate Indicators (mg/l)</b> |                |                |                |           |         |              |           |              |           |
| 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)**

| <b>Metals (µg/l)</b>              | 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            | <b>11.0</b>    |
| 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          | <b>ND(5.0)</b> |
| 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        | <b>6,910.0</b> |
| Chromium                          | 7.0 J        | ND(10.0)  | 4.0 J     | 20.0           | 2.0 J        | 19.0            | 10.0 J         | 18.0           | <b>19.0</b>    |
| Iron                              | <b>410.0</b> | 240.0     | 260.0     | <b>1,500.0</b> | <b>653.0</b> | <b>18,200.0</b> | <b>8,470.0</b> | <b>9,520.0</b> | <b>1,650.0</b> |
| Lead                              | <b>35.3</b>  | 20.3      | 23.0      | <b>75.0</b>    | <b>44.0</b>  | <b>1,990.0</b>  | <b>508.0</b>   | <b>769.0</b>   | <b>732.0</b>   |
| Magnesium                         | 690.0        | 580.0     | 700.0     | 1,200.0        | 1,070.0      | 3,140.0         | 2,780.0        | 3,200.0        | <b>4,160.0</b> |
| Mercury                           | ND(0.2)      | 0.2       | ND(0.2)   | ND(0.2)        | ND(0.2)      | ND(0.2)         | ND(0.2)        | ND(0.2)        | <b>0.1 J</b>   |
| 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        | <b>4,070.0</b> |
| 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        | <b>5,490.0</b> |
| <b>Leachate Indicators (mg/l)</b> |              |           |           |                |              |                 |                |                |                |
| Ammonia                           | 0.21         | 0.047 J   | 0.167     | ND(0.075)      | 0.027J       | 0.105           | 0.132 J        | 0.134          | <b>0.193</b>   |
| 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)

| <b>Metals (µg/l)</b>              | 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                              | <b>3,420.0</b> | <b>6,460.0</b> |  |  |  |  |  |  |  |
| Lead                              | <b>205.0</b>   | <b>185.0</b>   |  |  |  |  |  |  |  |
| 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        |  |  |  |  |  |  |  |
| <b>Leachate Indicators (mg/l)</b> |                |                |  |  |  |  |  |  |  |
| 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  
May 2022 Sampling Event  
Surface Water Sample Results  
Volatile Organic Compounds

| Units in ug/l                    |            |                                   | Sample ID<br>Sample Date | SW-1<br>5/27/22 | SW-2<br>5/27/22 | SW-3<br>5/27/22 | SW-4<br>5/27/22 | SW-5<br>5/27/22 | SW-6<br>5/27/22 | SW-7<br>5/27/22 |
|----------------------------------|------------|-----------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| VOLATILE COMPOUNDS               | CAS Number | Class C Surface<br>Water Standard |                          |                 |                 |                 |                 |                 |                 |                 |
| 1,1,1-Trichloroethane            | 71-55-6    | --                                | 1 U                      | 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 U             |
| 1,1,2-Trichloroethane            | 79-00-5    | --                                | 1 U                      | 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 U             |
| 1,1-Dichloroethene               | 75-35-4    | --                                | 1 U                      | 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 U             |
| 1,2-Dichloroethane               | 107-06-2   | --                                | 1 U                      | 1 U             | 1 U             | 1 U             | 1 U             | 1 U             | 1 U             | 1 U             |
| 1,2-Dichloropropane              | 78-87-5    | --                                | 1 U                      | 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 U             |
| 1,4-Dichlorobenzene              | 106-46-7   | 5                                 | 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 UJ            | 1 UJ            | 1 UJ            |
| Benzene                          | 71-43-2    | 210                               | 1 U                      | 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             | 1 U             |
| Bromoform                        | 75-25-2    | --                                | 1 U                      | 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             | 1 U             |
| Carbon tetrachloride             | 56-23-5    | --                                | 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             |
| Chloroethane                     | 75-00-3    | --                                | 1 U                      | 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             | 1 U             |
| Chloromethane                    | 74-87-3    | --                                | 1 U                      | 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             | 1 U             |
| cis-1,3-Dichloropropene          | 10061-01-5 | --                                | 1 U                      | 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             | 1 U             |
| Dichlorodifluoromethane          | 75-71-8    | --                                | 1 U                      | 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             | 1 U             |
| Methylene Chloride               | 75-09-2    | --                                | 1 U                      | 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             | 1 U             |
| Toluene                          | 108-88-3   | 100                               | 1 U                      | 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             | 1 U             |
| trans-1,3-Dichloropropene        | 10061-02-6 | --                                | 1 U                      | 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             | 1 U             |
| Trichlorofluoromethane           | 75-69-4    | --                                | 1 U                      | 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             | 1 U             |
| Xylene (total)                   | 1330-20-7  | 65                                | 1 U                      | 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               | 0               |

Footnotes/Qualifiers:

ug/l Micrograms per liter

U Compound was analyzed for but not detected

J Estimated limit

-- No standard

## **APPENDIX C-2**

### **SURFACE WATER SAMPLE RESULTS LEACHATE INDICATORS**

Appendix C-2  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
May 2022 Sampling Event  
Surface Water Sample Results  
Metals and Leachate Indicator Parameters

Page 1 of 1

| Sample ID<br>Sample Date |            |                                      | SW-1<br>5/27/22 | SW-2<br>5/27/22 | SW-3<br>5/27/22 | SW-4<br>5/27/22 | SW-5<br>5/27/22 | SW-6<br>5/27/22 | SW-7<br>5/27/22 |
|--------------------------|------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Units in mg/l            |            |                                      |                 |                 |                 |                 |                 |                 |                 |
| Metals                   | CAS Number | Class C<br>Surface Water<br>Standard |                 |                 |                 |                 |                 |                 |                 |
| Calcium*                 |            | --                                   | 17.7            | 28.6            | 25.6            | 19.7            | 21.5            | 15.2            | 264             |
| Magnesium*               |            | --                                   | 6.95            | 14.5            | 12.7            | 8.04            | 10.1            | 7.42            | 824             |
| LEACHATE INDICATORS      | CAS Number | Class C<br>Surface Water<br>Standard |                 |                 |                 |                 |                 |                 |                 |
| Alkalinity, Carbonate    | ALK        | --                                   | 1.0 UJ          | 1.0 UJ          | 1.0 UJ          | 1.0 UJ          | 1.0 UJ          | 1.0 UJ          | 1.0 UJ          |
| Ammonia, as N            | 7664-41-7  | 2.2                                  | 0.13            | 0.088 J         | 0.10 U          | 0.11            | 0.084 J         | 0.067 J         | 0.10 U          |
| Chloride                 | 16887-00-6 | --                                   | 56.2            | 96.9            | 90.2            | 63.4            | 83.9            | 131             | 14600           |
| Hardness                 | HARD       | --                                   | 72.8            | 131             | 116             | 82.3            | 95.3            | 68.5            | 4050            |
| Nitrate                  | 14797-55-8 | --                                   | 2.1 J           | 2.2 J           | 1.9 J           | 2.6 J           | 1.6 J           | 0.088 J         | 0.037 UBJ       |
| Sulfate                  | 14808-79-8 | --                                   | 19.0            | 40.3            | 33.4            | 20.9            | 24.1            | 14.5            | 1990            |
| Total Dissolved Solids   | E-10173    | --                                   | 163             | 296             | 252             | 191             | 231             | 267             | 17500           |

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**



Appendix C-1  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
November 2021 Sampling Event  
Surface Water Sample Results  
Volatile Organic Compounds

| Sample ID<br>Sample Date         |            |                                   | SW-1<br>11/16/21 | SW-2<br>11/16/21 | SW-3<br>11/16/21 | SW-4<br>11/16/21 | SW-5<br>11/16/21 | SW-6<br>11/16/21 | SW-7<br>11/16/21 |
|----------------------------------|------------|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Units in ug/l                    |            |                                   |                  |                  |                  |                  |                  |                  |                  |
| VOLATILE COMPOUNDS               | CAS Number | Class C Surface<br>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 U              | 1 U              | 1 U              | 1 U              | 1 U              | 1 U              | 1 U              |
| 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              |
| 2-Chloroethyl vinyl ether        | 110-75-8   | --                                | 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 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             |
| 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              | 1.4              | 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              |
| Total Volatile Organic Compounds |            | --                                | 0                | 0                | 1.4              | 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  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
November 2021 Sampling Event  
Surface Water Sample Results  
Metals and Leachate Indicator Parameters

Page 1 of 1

| Sample ID<br>Sample Date |            |                                      | SW-1<br>11/16/21 | SW-2<br>11/16/21 | SW-3<br>11/16/21 | SW-4<br>11/16/21 | SW-5<br>11/16/21 | SW-6<br>11/16/21 | SW-7<br>11/16/21 |
|--------------------------|------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Units in mg/l            |            |                                      |                  |                  |                  |                  |                  |                  |                  |
| Metals                   | CAS Number | Class C<br>Surface Water<br>Standard |                  |                  |                  |                  |                  |                  |                  |
| Calcium*                 |            | --                                   | 19               | 28.8             | 25.5             | 19.3             | 20.5             | 15.4             | 231              |
| Magnesium*               |            | --                                   | 7.91             | 14.7             | 12.2             | 7.93             | 8.98             | 6.73             | 740              |
| LEACHATE INDICATORS      | CAS Number | Class C<br>Surface Water<br>Standard |                  |                  |                  |                  |                  |                  |                  |
| Alkalinity, Carbonate    | ALK        | --                                   | 1 U              | 1 U              | 1 U              | 1 U              | 1 U              | 1 U              | 1 U              |
| Ammonia, as N            | 7664-41-7  | 2.2                                  | 0.072 J          | 0.1 U            | 0.1 U            | 0.089 J          | 0.21             | 0.36             | 0.13             |
| Chloride                 | 16887-00-6 | --                                   | 56.1             | 89.8             | 70.6             | 60.9             | 62.5             | 83.7             | 36900            |
| Hardness                 | HARD       | --                                   | 80               | 132              | 114              | 80.8             | 88.2             | 66.2             | 3620             |
| Nitrate                  | 14797-55-8 | --                                   | 2.7 J            | 1.8 J            | 4.2 J            | 2.7 J            | 2.1 J            | 0.53 J           | 0.40 J           |
| Sulfate                  | 14808-79-8 | --                                   | 20.8 J           | 39.4 J           | 30.1 J           | 20.4 J           | 21.8 J           | 13.0 J           | 4060 J           |
| Total Dissolved Solids   | E-10173    | --                                   | 163              | 244              | 174              | 178              | 182              | 224              | 17300 J          |

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 C-1  
East Northport Landfill  
Semi-Annual Groundwater Monitoring  
June 2021 Sampling Event  
Surface Water Sample Results  
Volatile Organic Compounds

| Sample ID<br>Sample Date         |            |                                   | SW-1<br>7/20/21 | SW-2<br>7/20/21 | SW-3<br>7/20/21 | SW-4<br>7/20/21 | SW-5<br>7/20/21 | SW-6<br>7/20/21 | SW-7<br>7/20/21 |
|----------------------------------|------------|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Units in ug/l                    |            |                                   |                 |                 |                 |                 |                 |                 |                 |
| VOLATILE COMPOUNDS               | CAS Number | Class C Surface<br>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  
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<br>Sample Date |            |                                      | SW-1<br>7/20/21 | SW-2<br>7/20/21 | SW-3<br>7/20/21 | SW-4<br>7/20/21 | SW-5<br>7/20/21 | SW-6<br>7/20/21 | SW-7<br>7/20/21 |
|--------------------------|------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Units in mg/l            |            |                                      |                 |                 |                 |                 |                 |                 |                 |
| Metals                   | CAS Number | Class C<br>Surface Water<br>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<br>Surface Water<br>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

**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<br>Class GA<br>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<br>Class GA<br>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<br>Class GA<br>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  | <b>8,000.00</b> | 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  | <b>940.00</b>   | 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)  | <b>6.0</b> | 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*

| <b>Leachate Indicators (mg/l)</b> | 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  |

| <b>Leachate Indicators (mg/l)</b> | 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)**

| <b>Leachate Indicators (mg/l)</b> | 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  |

| <b>Leachate Indicators (mg/l)</b> | 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)  | <b>6.0</b> | 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*

| <b>Leachate Indicators (mg/l)</b> | 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     |

| <b>Leachate Indicators (mg/l)</b> | 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)**

| <b>Leachate Indicators (mg/l)</b> | <b>9/05</b> | <b>8/06</b> | <b>11/06</b> | <b>7/07</b> | <b>11/07</b> | <b>4/08</b> | <b>9/08</b> | <b>4/09</b> | <b>9/09</b> |
|-----------------------------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|
| 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       |

| <b>Leachate Indicators (mg/l)</b> | <b>6/10</b> | <b>10/11</b> | <b>5/12</b> | <b>9/12</b> | <b>5/13</b> | <b>10/13</b> | <b>4/14</b> | <b>9/14</b> | <b>4/15</b> |
|-----------------------------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 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)  | <b>6.0</b> | 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     | <b>6.0</b> | 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)**

| <b>Leachate Indicators (mg/l)</b> | 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  |

| <b>Leachate Indicators (mg/l)</b> | 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)**

| <b>Leachate Indicators (mg/l)</b> | 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 |

| <b>Leachate Indicators (mg/l)</b> | 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    | <b>3,500.00</b> | 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     | <b>482.00</b>   | 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)**

| <b>Leachate Indicators (mg/l)</b> | 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 |

| <b>Leachate Indicators (mg/l)</b> | 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     | <b>250.00</b> |
| 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)   |  |  |  |  |  |  |  |
| 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

**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                   | <b>4,316.00</b> | <b>4,470.00</b> | <b>2,750.00</b> | <b>3,810.00</b> | <b>3,620.00</b> | <b>3,080.00</b> | <b>5,835.00</b> | <b>1,500.00</b> | <b>3,300.00</b> |
| Nitrate                    | 5.00            | 0.62            | 0.32            | 0.44            | 0.30            | 0.67            | ND(0.05)        | ND(0.50)        | ND(0.50)        |
| Sulfate                    | <b>705.00</b>   | <b>808.00</b>   | 248.00          | <b>530.00</b>   | <b>447.00</b>   | <b>416.00</b>   | <b>953.00</b>   | 28.00           | <b>270.00</b>   |
| 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           | <b>2.800</b>    | 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                   | <b>1,800.00</b> | <b>2,600.00</b> | <b>2,500.00</b> | <b>3,600.00</b> | <b>1,100.00</b> | <b>3,900.00</b> | <b>1,500.00</b> | <b>1,300.00</b> | <b>2,400.00</b> |
| 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          | <b>370.00</b>   | <b>270.00</b>   | <b>310.00</b>   | 180.00          | <b>750.00</b>   | <b>440.00</b>   | <b>190.00</b>   | <b>380.00</b>   |
| 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                   | <b>2,600.00</b> | <b>2,500.00</b> | <b>1,400.00</b> | <b>1,460.00</b> | <b>4,500.00</b> | <b>3,000.00</b> | <b>2,300.00</b> | <b>2300.00</b> | <b>620.00</b> |
| Nitrate                    | ND(0.50)        | ND(0.50)        | 0.71            | 0.44            | 0.94            | 0.36            | 0.44            | 1.40           | 0.51          |
| Sulfate                    | <b>350.00</b>   | <b>370.00</b>   | 220.00          | 199.00          | <b>390.00</b>   | <b>380.00</b>   | <b>420.00</b>   | <b>330.00</b>  | 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                   | <b>500.00</b> | <b>3,000.00</b> | <b>2,900.00</b> | <b>1,300.000</b> | <b>12,000.00</b> | <b>6,900.00</b> | <b>4,400.00</b> | <b>7,800.00</b> | <b>13,000.00</b> |
| Nitrate                    | 2.30          | 0.36            | 2.10            | 0.590            | 0.21             | 0.64            | 0.92            | ND(0.100)       | 0.30             |
| Sulfate                    | 77.00         | <b>420.00</b>   | <b>310.00</b>   | 190.000          | <b>1,800.00</b>  | <b>1,100.00</b> | <b>1,200.00</b> | <b>1,200.00</b> | <b>1,800.00</b>  |
| 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                   | <b>14,000.000</b> | <b>11,000.000</b> | <b>11,000.00</b> | <b>6,800.00</b> | <b>8,400.00</b> | <b>9,100.00</b> | <b>11,000.00</b> | <b>11,000.00</b> | 1000.00   |
| Nitrate                    | 0.214             | 0.276             | 0.46             | 0.54            | 0.54            | 0.16            | 0.26             | 0.21             | 1.05      |
| Sulfate                    | <b>1,600.000</b>  | <b>1,600.000</b>  | <b>1,600.00</b>  | <b>1,000.00</b> | <b>1,200.00</b> | <b>1,300.00</b> | <b>1,600.00</b>  | <b>1,700.00</b>  | 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                   | <b>9,600.00</b> | <b>8,000.00</b> |  |  |  |  |  |  |  |
| Nitrate                    | 0.302           | 0.804           |  |  |  |  |  |  |  |
| Sulfate                    | <b>1,300.00</b> | <b>940.00</b>   |  |  |  |  |  |  |  |
| 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 5/18/2022

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

Depth of well (feet from top of casing) ..... 104.70'  
Initial static water level (feet from top of casing) ..... 58.25'  
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: 46.25' ft. of water x 1.47 = 68 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                         | 5.97 | 17.67     | 0.237               | 0.0              | 1.62                    | 23       | 0.1          |
| 50                              | 6.11 | 17.52     | 0.237               | 0.0              | 0.92                    | 39       | 0.1          |
| 100                             | 6.12 | 17.57     | 0.237               | 0.0              | 0.81                    | -34      | 0.1          |
| 150                             | 6.12 | 17.56     | 0.237               | 0.0              | 0.75                    | -43      | 0.1          |
| 200                             | 6.12 | 17.56     | 0.236               | 0.0              | 0.75                    | -47      | 0.1          |
| 250                             | 6.15 | 17.56     | 0.235               | 0.0              | 0.70                    | -51      | 0.1          |
| 300                             | 6.19 | 17.57     | 0.235               | 0.0              | 0.67                    | -58      | 0.1          |
| 350                             | 6.22 | 17.57     | 0.233               | 0.0              | 0.65                    | -58      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |

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

## Sampling

Time of Sample Collection: 10:35 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 Parameters

## Observations

Weather/Temperature: Mostly cloudy, 60-70 F

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 5/18/2022

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

Depth of well (feet from top of casing) ..... 77.40'  
Initial static water level (feet from top of casing) ..... 58.20'  
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: 19.20 ft. of water x 1.47 = 28 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                         | 6.90 | 18.72     | 0.676               | 0.0              | 1.68                    | -32      | 0.4          |
| 30                              | 6.74 | 18.25     | 0.740               | 0.0              | 0.77                    | -88      | 0.4          |
| 60                              | 6.76 | 18.15     | 0.745               | 0.0              | 0.72                    | -108     | 0.4          |
| 90                              | 6.79 | 18.14     | 0.748               | 0.0              | 0.63                    | -117     | 0.4          |
| 120                             | 6.82 | 18.17     | 0.746               | 0.0              | 0.55                    | -129     | 0.4          |
| 150                             | 6.80 | 18.16     | 0.740               | 0.0              | 0.56                    | -128     | 0.4          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

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

## Sampling

Time of Sample Collection: 11:55 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: Mostly cloudy, 60-70 F

Sample description: Slight yellow tint

Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Odor? yes X no \_\_\_\_\_ describe Leachate odor

# EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 5/20/2022

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

Depth of well (feet from top of casing) ..... 116.90'  
Initial static water level (feet from top of casing) ..... 79.49'  
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: 37.41 ft. of water x 0.65 = 55 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                         | 6.94 | 14.65     | 0.311               | 0.0              | 2.52                    | 235      | 0.1          |
| 30                              | 6.52 | 14.35     | 0.265               | 0.0              | 0.61                    | 221      | 0.1          |
| 60                              | 6.44 | 14.26     | 0.248               | 0.0              | 0.54                    | 222      | 0.1          |
| 90                              | 6.39 | 14.27     | 0.243               | 0.0              | 0.53                    | 224      | 0.1          |
| 120                             | 6.31 | 14.22     | 0.241               | 0.0              | 0.61                    | 227      | 0.1          |
| 150                             | 6.28 | 14.22     | 0.240               | 0.0              | 0.64                    | 227      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

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

## Sampling

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

### Method:

\_\_\_\_\_ Submersible Pump  
\_\_\_\_\_ In-Line Filter (Diss. Metals)  
\_\_\_\_\_ Pos. Disp. Pump  
X Disposable bailer  
\_\_\_\_\_ Dedicated pump

### Analyses (Pace Analytical Laboratory)

X VOCs  
X Metals  
X Leachate  
X Parameters

## Observations

Weather/Temperature: Cloudy, 60-70 F

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 5/18/2022

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

Depth of well (feet from top of casing) ..... 148.00'  
Initial static water level (feet from top of casing) ..... 94.10'  
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: 54 ft. of water x 0.65 = 35 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                         | 7.83 | 16.70     | 0.244               | 0.0              | 7.69                    | 100      | 0.1          |
| 50                              | 6.37 | 14.82     | 0.242               | 0.0              | 7.23                    | 182      | 0.1          |
| 100                             | 6.47 | 14.36     | 0.239               | 0.0              | 7.37                    | 204      | 0.1          |
| 150                             | 6.52 | 14.45     | 0.239               | 0.0              | 7.35                    | 211      | 0.1          |
| 250                             | 6.79 | 14.40     | 0.237               | 0.0              | 7.37                    | 216      | 0.1          |
| 300                             | 6.84 | 14.34     | 0.235               | 0.0              | 7.00                    | 226      | 0.1          |
| 350                             | 6.93 | 14.31     | 0.235               | 0.0              | 6.86                    | 232      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate: 2 GPM Purging Time: 150 min Sampling Rate: NA  
Well headspace PID =0.0 ppm

## Sampling

Time of Sample Collection: 3:40 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: Mostly cloudy, 60-70 F

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 5/18/2022

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

Depth of well (feet from top of casing) ..... 116.90'  
Initial static water level (feet from top of casing) ..... 94.35'  
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: 22.55 ft. of water x 0.65 = 14.7 gallons  
6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

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

## Field Tests

| Volume of Purge Water (Gallons) | pH   | Temp (c°) | Spec. Cond. (ms/cm) | Turbidity (NTUs) | Dissolved Oxygen (mg/l) | ORP (mv) | Salinity (%) |
|---------------------------------|------|-----------|---------------------|------------------|-------------------------|----------|--------------|
| Initial                         | 9.02 | 16.59     | 0.130               | 0.0              | 4.30                    | 128      | 0.1          |
| 10                              | 8.25 | 16.04     | 0.127               | 0.0              | 4.24                    | 85       | 0.1          |
| 20                              | 7.89 | 16.84     | 0.163               | 0.0              | 2.91                    | 76       | 0.1          |
| 30                              | 6.77 | 17.07     | 0.197               | 0.0              | 1.74                    | 72       | 0.1          |
| 40                              | 6.92 | 17.07     | 0.210               | 0.0              | 1.32                    | 67       | 0.1          |
| 50                              | 7.04 | 17.19     | 0.211               | 0.0              | 1.38                    | 66       | 0.1          |
| 60                              | 7.06 | 17.27     | 0.215               | 0.0              | 1.33                    | 68       | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate: 1 GPM Purging Time: 50 min Sampling Rate: NA  
Well headspace PID = 0.0 ppm

## Sampling

Time of Sample Collection: 4:50 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, 60-70 F  
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 5/23/2022

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

175.90'

Depth of well (feet from top of casing) .....                     

Initial static water level (feet from top of casing) ..... 65.01

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: 110.89 ft. of water x 0.65 = 72 gallons

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

volume of water removed:

22 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 (%) |
|--------------------------------|------|-----------|---------------------|------------------|-------------------------|----------|--------------|
| 2                              | 6.83 | 15.23     | 0.269               | 0.0              | 10.63                   | 161      | 0.1          |
| 4                              | 6.54 | 13.70     | 0.281               | 0.0              | 8.90                    | 200      | 0.1          |
| 5                              | 6.49 | 13.85     | 0.282               | 0.0              | 9.07                    | 209      | 0.1          |
| 6                              | 6.58 | 13.44     | 0.287               | 0.0              | 10.10                   | 225      | 0.1          |
| 8                              | 6.58 | 13.98     | 0.286               | 0.0              | 10.05                   | 226      | 0.1          |
| 10                             | 6.56 | 13.94     | 0.285               | 0.0              | 9.99                    | 226      | 0.1          |
| 12                             | 6.56 | 13.66     | 0.287               | 0.0              | 10.21                   | 227      | 0.1          |
| 14                             | 6.57 | 13.74     | 0.287               | 0.0              | 6.52                    | 228      | 0.1          |
| 16                             | 6.57 | 13.26     | 0.289               | 0.0              | 6.79                    | 228      | 0.1          |
| 18                             | 6.57 | 13.16     | 0.290               | 0.0              | 9.66                    | 213      | 0.1          |
| 20                             | 6.59 | 13.36     | 0.288               | 0.0              | 9.68                    | 215      | 0.1          |
| 22                             | 6.59 | 13.20     | 0.289               | 0.0              | 9.59                    | 215      | 0.1          |

Purging Rate:

400 ml/m

Purging Time:

60 min

Sampling Rate: 400 ml/m

Well head space PID = 0.0 ppm

Sampling

Time of Sample Collection: 5:00 p.m.

Method:

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

Analyses (Pace Analytical Laboratory)

X VOCs  
X Metals  
X Leachate  
X Parameters  
X PFAS and 1,4-Dioxane

X Low flow bladder pump

## Observations

Weather/Temperature: Mostly Cloudy, 65-75 F

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 5/20/2022

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

Depth of well (feet from top of casing) ..... 174.00'  
Initial static water level (feet from top of casing) ..... 95.79'  
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: 78.21 ft. of water x 0.65 = 51 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                         | 6.22 | 14.84     | 0.400               | 0.0              | 4.33                    | 251      | 0.2          |
| 40                              | 6.22 | 12.76     | 0.411               | 0.0              | 2.73                    | 251      | 0.2          |
| 80                              | 6.25 | 12.75     | 0.412               | 0.0              | 2.82                    | 254      | 0.2          |
| 120                             | 6.29 | 12.80     | 0.412               | 0.0              | 3.22                    | 253      | 0.2          |
| 160                             | 6.33 | 12.83     | 0.411               | 0.0              | 3.06                    | 255      | 0.2          |
| 200                             | 6.38 | 12.85     | 0.412               | 0.0              | 2.92                    | 258      | 0.2          |
| 240                             | 6.47 | 12.93     | 0.412               | 0.0              | 2.91                    | 206      | 0.2          |
|                                 |      |           |                     |                  |                         |          |              |

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

## Sampling

Time of Sample Collection: 11:15 a.m.

### Method:

\_\_\_\_\_ Submersible Pump  
\_\_\_\_\_ In-Line Filter (Diss. Metals)  
\_\_\_\_\_ Pos. Disp. Pump  
X Disposable bailer  
\_\_\_\_\_ Dedicated pump

### Analyses (Pace Analytical Laboratory)

X VOCs  
X Metals  
X Leachate  
X Parameters

## Observations

Weather/Temperature: Cloudy, 60-70 F

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 5/20/2022

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

Depth of well (feet from top of casing) ..... 113.70'  
Initial static water level (feet from top of casing) ..... 96.83'  
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: 16.87 ft. of water x 0.65 = 11 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                         | 8.35 | 13.14     | 0.303               | 0.0              | 10.05                   | 136      | 0.1          |
| 10                              | 5.59 | 13.03     | 0.301               | 0.0              | 8.46                    | 219      | 0.1          |
| 20                              | 5.41 | 13.02     | 0.300               | 0.0              | 8.52                    | 232      | 0.1          |
| 30                              | 5.32 | 13.02     | 0.299               | 0.0              | 8.46                    | 246      | 0.1          |
| 40                              | 5.27 | 13.02     | 0.299               | 0.0              | 8.27                    | 249      | 0.1          |
| 50                              | 5.26 | 13.03     | 0.299               | 0.0              | 8.21                    | 258      | 0.1          |
| 60                              | 5.26 | 13.04     | 0.299               | 0.0              | 8.28                    | 264      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |

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

## Sampling

Time of Sample Collection: 9:35 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  
\_\_\_\_\_ \_\_\_\_\_ X Parameters  
\_\_\_\_\_ Dedicated pump \_\_\_\_\_

## Observations

Weather/Temperature: Cloudy, 60-70 F  
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 5/23/2022

WELL ID: EN7-M Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_

SAMPLERS: KR  
 Depth of well (feet from top of casing) ..... 223.74'  
 Initial static water level (feet from top of casing) ..... 25.58'  
 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: 198.16 ft. of water x 0.65 = 129 gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed:  
28.5 liters. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

## Field Tests

| Volume of Purge Water (liters) | pH   | Temp (c°) | Spec. Cond. (ms/cm) | Turbidity (NTUs) | Dissolved Oxygen (mg/l) | ORP (mv) | Salinity (%) |
|--------------------------------|------|-----------|---------------------|------------------|-------------------------|----------|--------------|
| Initial                        | 6.55 | 13.30     | 0.259               | 47.4             | 9.26                    | 147      | 0.1          |
| 3                              | 6.71 | 13.30     | 0.259               | 51.0             | 8.99                    | 139      | 0.1          |
| 6                              | 6.85 | 13.31     | 0.336               | 17.1             | 3.17                    | 133      | 0.1          |
| 9                              | 6.98 | 13.35     | 0.376               | 0.0              | 2.87                    | 120      | 0.1          |
| 12                             | 7.09 | 13.57     | 0.392               | 0.0              | 2.66                    | 108      | 0.2          |
| 15                             | 7.19 | 14.06     | 0.403               | 0.0              | 2.58                    | 100      | 0.2          |
| 18                             | 7.39 | 14.42     | 0.580               | 0.0              | 1.40                    | 52       | 0.3          |
| 19.5                           | 7.45 | 14.57     | 0.593               | 0.0              | 1.25                    | 44       | 0.3          |
| 21                             | 7.46 | 14.61     | 0.645               | 0.0              | 1.28                    | 39       | 0.3          |
| 22.5                           | 7.47 | 14.52     | 0.599               | 0.0              | 1.23                    | 35       | 0.3          |
| 24                             | 7.48 | 14.79     | 0.632               | 0.0              | 1.20                    | 27       | 0.3          |
| 25.5                           | 7.49 | 14.78     | 0.682               | 0.0              | 0.99                    | 18       | 0.3          |
| 27                             | 7.51 | 14.81     | 0.734               | 0.0              | 1.05                    | -9       | 0.3          |
| 28.5                           | 7.52 | 14.72     | 0.714               | 0.0              | 0.45                    | -7       | 0.3          |

Sampling purging rate = 500ml/m  
 Time of Sample Collection: 11:50 a.m. sampling rate= 300 ml/m, Purge time = 95 min

Method: \_\_\_\_\_ Analyses (Pace Analytical Laboratory)  
 \_\_\_\_\_ Submersible Pump X VOCs  
 \_\_\_\_\_ In-Line Filter (Diss. Metals) \_\_\_\_\_ Well headspace PID = 0.0 ppm  
 \_\_\_\_\_ Pos. Disp. Pump X Metals  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_ Leachate  
 \_\_\_\_\_ X Parameters  
X Low flow bladder pump X PFAS and 1,4-Dioxane

## Observations

Weather/Temperature: Partly Cloudy, 63-72 F  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

Note: Collected MS/MSD at well EN7-M



# EAST NORTHPORT LANDFILL SAMPLING FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE East Northport Landfill DATE 5/20/2022

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

Depth of well (feet from top of casing) ..... 134.00'  
Initial static water level (feet from top of casing) ..... 27.08'  
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: 106.92 ft. of water x 0.65 = 70 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                         | 7.00 | 12.56     | 0.505               | 0.0              | 3.98                    | 250      | 0.2          |
| 50                              | 7.07 | 11.76     | 0.620               | 0.0              | 5.26                    | 251      | 0.3          |
| 100                             | 6.85 | 11.63     | 0.627               | 0.0              | 6.14                    | 263      | 0.3          |
| 150                             | 6.83 | 11.61     | 0.623               | 0.0              | 6.12                    | 267      | 0.3          |
| 200                             | 6.86 | 11.58     | 0.613               | 0.0              | 5.98                    | 269      | 0.3          |
| 250                             | 6.93 | 11.57     | 0.610               | 0.0              | 5.73                    | 268      | 0.3          |
| 300                             | 6.97 | 11.57     | 0.596               | 0.0              | 5.71                    | 268      | 0.3          |
| 350                             | 7.01 | 11.57     | 0.594               | 0.0              | 5.69                    | 268      | 0.3          |
|                                 |      |           |                     |                  |                         |          |              |

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

## Sampling

Time of Sample Collection: 1:35 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 Parameters

## Observations

Weather/Temperature: Cloudy, 60-70 F

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 5/25/2022

WELL ID: EN10-M Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_

SAMPLERS: KR

Depth of well (feet from top of casing) ..... 416.00'

Initial static water level (feet from top of casing) ..... 222.15'

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: 193.85 ft. of water x 0.65 = 126 gallons

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

volume of water removed:

450 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                         | 5.75 | 14.81     | 0.127               | 0.0              | 1.72                    | 255      | 0.1          |
| 50                              | 5.94 | 14.40     | 0.185               | 0.0              | 1.49                    | 262      | 0.1          |
| 100                             | 5.95 | 14.17     | 0.206               | 0.0              | 4.05                    | 303      | 0.1          |
| 150                             | 6.34 | 14.19     | 0.206               | 0.0              | 8.88                    | 298      | 0.1          |
| 200                             | 6.75 | 14.14     | 0.206               | 0.0              | 8.66                    | 290      | 0.1          |
| 250                             | 6.77 | 14.09     | 0.205               | 0.0              | 8.19                    | 295      | 0.1          |
| 300                             | 6.78 | 14.21     | 0.205               | 0.0              | 8.14                    | 298      | 0.1          |
| 350                             | 6.80 | 14.22     | 0.204               | 0.0              | 8.02                    | 303      | 0.1          |
| 400                             | 6.81 | 14.24     | 0.204               | 0.0              | 8.00                    | 303      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate:

1 GPM

Purging Time:

6 hours, 20 min

Sampling Rate: NA

Well headspace PID = 0.0 ppm

## Sampling

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

Method:

\_\_\_\_\_ Submersible Pump  
\_\_\_\_\_ In-Line Filter (Diss. Metals)  
\_\_\_\_\_ Pos. Disp. Pump  
X \_\_\_\_\_ Stainless Steel bailer

Analyses (Pace Analytical Laboratory)

X \_\_\_\_\_ VOCs  
X \_\_\_\_\_ Metals  
X \_\_\_\_\_ Leachate  
X \_\_\_\_\_ Parameters  
X \_\_\_\_\_ PFAS and 1,4-Dioxane

\_\_\_\_\_ Dedicated pump

## Observations

Weather/Temperature: Sunny, 60-65 F

Sample description: Clear

Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_

Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_

Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

Note: collected Blind Duplicate sample

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

SITE East Northport Landfill DATE 5/27/2022

WELL ID: SW-1 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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                          | 6.55 | 15.01     | 0.269               | 0                | 3.15                    | 219      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate: \_\_\_\_\_ Purging Time: \_\_\_\_\_ Sampling Rate: NA  
\_\_\_\_\_ Grab sample

**Sampling**

Time of Sample Collection: 08:25 a.m.

**Method:**

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

**Analyses (Pace Analytical Laboratory)**

X VOCs  
X Leachate Parameters

**Observations**

Weather/Temperature: Overcast, 66 F

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 5/27/2022

WELL ID: SW-2 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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                          | 7.05 | 13.76     | 0.416               | 0                | 8.57                    | 212      | 0.2          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate: \_\_\_\_\_ Purging Time: \_\_\_\_\_ Sampling Rate: NA  
\_\_\_\_\_ Grab sample

**Sampling**

Time of Sample Collection: 08:55 a.m.

**Method:**

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

**Analyses (Pace Analytical Laboratory)**

X VOCs  
X Leachate Parameters

**Observations**

Weather/Temperature: Overcast, 66 F  
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 5/27/2022

WELL ID: SW-3 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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                          | 7.01 | 11.61     | 0.360               | 0                | 8.13                    | 110      | 0.2          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate: \_\_\_\_\_ Purging Time: \_\_\_\_\_ Sampling Rate: NA  
\_\_\_\_\_ Grab sample

**Sampling**

Time of Sample Collection: 09:15 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: Overcast, 66 F

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 5/27/2022

WELL ID: SW-4 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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                          | 6.42 | 14.07     | 0.291               | 0                | 4.28                    | 194      | 0.1          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

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

**Sampling**

Time of Sample Collection: 08:00 a.m.

**Method:**

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

**Analyses (Pace Analytical Laboratory)**

X VOCs  
  Leachate Parameters  
X

**Observations**

Weather/Temperature: Overcast, 66 F  
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 5/27/2022

WELL ID: SW-5 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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                          | 7.10 | 17.33     | 0.369               | 0                | 6.91                    | 128      | 0.2          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

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

**Sampling**

Time of Sample Collection: 09:35 a.m.

**Method:**

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

**Analyses (Pace Analytical Laboratory)**

X VOCs  
\_\_\_\_\_ Leachate  
X Parameters

**Observations**

Weather/Temperature: Overcast, 66 F  
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 5/27/2022

WELL ID: SW-6 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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** **Well Volume Calculation:**  
Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_ 2 in. casing: \_\_\_\_\_ ft. of water x 0.16 = \_\_\_\_\_ gallons  
Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_ 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
Submersible \_\_\_\_\_ Disposable \_\_\_\_\_ 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons  
Pump \_\_\_\_\_ Bladder Pump \_\_\_\_\_  
\_\_\_\_\_ (Low Flow) \_\_\_\_\_

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

**Field Tests**

| Volume of Purge Water (Gallons) | pH   | Temp (c°) | Spec. Cond. (ms/cm) | Turbidity (NTUS) | Dissolved Oxygen (mg/l) | ORP (mv) | Salinity (%) |
|---------------------------------|------|-----------|---------------------|------------------|-------------------------|----------|--------------|
| Sample                          | 7.59 | 19.89     | 0.417               | 0                | 4.45                    | 180      | 0.2          |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

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

**Sampling**

Time of Sample Collection: 10:15 a.m.

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

**Observations**

Weather/Temperature: Overcast, 66 F  
Sample description: Clear  
Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Odor? yes X no \_\_\_\_\_ describe Slight organic odor



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

SITE East Northport Landfill DATE 5/27/2022

WELL ID: SW-7 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: 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                          | 8.58 | 14.70     | 40.0                | 0                | 7.11                    | 185      | 25.3         |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |
|                                 |      |           |                     |                  |                         |          |              |

Purging Rate: \_\_\_\_\_ Purging Time: \_\_\_\_\_ Sampling Rate: NA  
\_\_\_\_\_ Grab sample

**Sampling**

Time of Sample Collection: 10:50 a.m.

**Method:**

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

**Analyses (Pace Analytical Laboratory)**

X VOCs  
  Leachate Parameters  
X

**Observations**

Weather/Temperature: Overcast, 66 F  
Sample description: clear  
Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

## **APPENDIX F**

### **CHAIN OF CUSTODY FORMS**





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

WO#: 70215314

PM: GFD

Due Date: 05/31/22

CLIENT: D&B

|                                           |      |                                                               |  |                                                            |  |
|-------------------------------------------|------|---------------------------------------------------------------|--|------------------------------------------------------------|--|
| Section A<br>Required Client Information: |      | Section B<br>Required Project Information:                    |  | Section C<br>Invoice Information:                          |  |
| Company: Dvirka & Bartilucci              |      | Report To: Robins, Keith                                      |  | Attention: <i>Keith Robins</i>                             |  |
| Address: 330 Crossways Park Drive         |      | Copy To:                                                      |  | Company Name: <i>D&amp;B Engineers and Architects P.C.</i> |  |
| Woodbury, NY 11797                        |      | Purchase Order #:                                             |  | Address: <i>330 Crossways Park Drive, Woodbury, NY</i>     |  |
| Email: KRobins@db-eng.com                 |      | Project Name: East Northport Landfill SA Groundwaters         |  | Pace Quote:                                                |  |
| Phone: NONE                               | Fax: | Pace Project Manager: <i>giovanna.deloca@pacelabs.com</i>     |  | Pace Profile #: 5278                                       |  |
| Requested Due Date: <i>STANDARD</i>       |      | Project #: <i>8629 - First Remedial Sampling Event - 2022</i> |  | Regulatory Agency:                                         |  |
|                                           |      |                                                               |  | State / Location:                                          |  |
|                                           |      |                                                               |  | NY                                                         |  |

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9 / , -)<br>Sample IDs must be unique | MATRIX<br>Drinking Water<br>Water<br>Waste Water<br>Product<br>Soil/Solid<br>Oil<br>Wipe<br>Air<br>Other<br>Tissue | CODE<br>DW<br>WT<br>WW<br>P<br>SL<br>OL<br>WP<br>AR<br>OT<br>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) | Metals: Aluminum, Arsenic, Chromium, Cadmium, Iron, Lead, Magnesium, Mercury, Potassium, Selenium, Strontium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, Calcium, Chloride, Cobalt, Copper, Fluoride, Iodine, Lithium, Manganese, Molybdenum, Nickel, Nitrate, Nitrite, Phosphate, Silver, Sodium, Sulfate, Sulfide, Tellurium, Thallium, Tin, Titanium, Vanadium, Zinc, Barium, Bismuth, Boron, 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| ADDITIONAL COMMENTS                                             | RELINQUISHED BY / AFFILIATION     | DATE           | TIME           | ACCEPTED BY / AFFILIATION | DATE           | TIME        | SAMPLE CONDITIONS                     |
|-----------------------------------------------------------------|-----------------------------------|----------------|----------------|---------------------------|----------------|-------------|---------------------------------------|
| Metals = Al, As, Cr, Cd, Ca, Fe, Pb, Mg, Hg, K, & Na + Hardness | <i>Keith Robins / D&amp;B Eng</i> | <i>5/20/22</i> | <i>4:35 pm</i> | <i>[Signature]</i>        | <i>5/20/22</i> | <i>4:35</i> | <i>0.1</i> <i>✓</i> <i>✓</i> <i>✓</i> |
| <i>provide CATEGORY B and Equiv Deliverables</i>                |                                   |                |                |                           |                |             |                                       |
| <i>Send data to Lab data @ db-eng.com</i>                       |                                   |                |                |                           |                |             |                                       |

| SAMPLER NAME AND SIGNATURE |                     | TEMP in C        | Received on Ice (Y/N) | Custody Sealed (Y/N) | Cooler (Y/N) | Samples Intact (Y/N) |
|----------------------------|---------------------|------------------|-----------------------|----------------------|--------------|----------------------|
| PRINT Name of SAMPLER:     | <i>Keith Robins</i> |                  |                       |                      |              |                      |
| SIGNATURE of SAMPLER:      | <i>[Signature]</i>  |                  |                       |                      |              |                      |
| DATE Signed:               |                     | <i>5/20/2022</i> |                       |                      |              |                      |



## CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL D

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

WO#: 70215314

PM: GFD

**Due Date: 05/31/22**

**CLIENT: D&B**

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Page : 1 Of 1

## Section A

**Required Client Information:**

|         |                     |
|---------|---------------------|
| Company | Dvirka & Bartilucci |
|---------|---------------------|

Address: 330 Crossways Park Drive

Woodbury, NY 11797

Email: [KRobins@db-eng.com](mailto:KRobins@db-eng.com)

|        |      |      |
|--------|------|------|
| Phone: | NONE | Fax: |
|--------|------|------|

Requested Due Date: 17/04/2017

## Section B

**Required Project Information:**

Report To: Robins, Keith

Copy To: 

Purchase Order #:

|               |                                         |
|---------------|-----------------------------------------|
| Project Name: | East Northport Landfill SA Groundwaters |
|---------------|-----------------------------------------|

|            |                              |
|------------|------------------------------|
| Project #: | Final Seminar and Event 2022 |
|------------|------------------------------|

## Section C

**Invoice Information:**

Attention: Keith Robins

Company Name: DJB Engineers + Architects

Address: 330 Cass Way Pk Pk Woodbury Nj

|             |
|-------------|
| Pace Quote: |
|-------------|

Pace Project Manager: [giovanna.deloca@pacelabs.com](mailto:giovanna.deloca@pacelabs.com).

|                 |      |
|-----------------|------|
| Pace Profile #: | 5278 |
|-----------------|------|

## Requested Analysis Filtered (Y/N)

[illegible]

| ADDITIONAL COMMENTS                                                                                | RELINQUISHED BY / AFFILIATION | DATE      | TIME    | ACCEPTED BY / AFFILIATION | DATE    | TIME    | SAMPLE CONDITIONS |
|----------------------------------------------------------------------------------------------------|-------------------------------|-----------|---------|---------------------------|---------|---------|-------------------|
| Metals = Al, As, Cr, Cd, Ca, Fe, Pb, Mg, Hg, K, & Na + Hardness<br>provide category "B" w/ "EQUIS" | Kathy Blair / O&B Engineer    | 5/24/2022 | 9:40 AM | Bryce Hyder               | 5/24/22 | 9:40 AM | 1-3 Y N Y         |
| see data to lab data @ o&b-enr.com                                                                 |                               |           |         |                           |         |         |                   |

## SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 6/2/2020

TEMP in C

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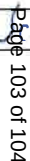
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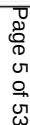
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## CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

WO#: 70216287



70216287

## 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:

## Section B

## Required Project Information:

Report To: Keith Robins  
Copy To: Lab@db-eng.com  
Purchase Order #: 5624  
Project Name: East Northport Surface Waters  
Project #: 5624

## Section C

## Invoice Information:

Attention: Keith Robins  
Company Name: D+B Engineering + Arch  
Address: 330 Crossways Park Drive  
Pace Quote:  
Pace Project Manager: giovanna.deloca@pacelabs.com  
Pace Profile #: 5278

Regulatory Agency

State / Location

NY

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

| ADDITIONAL COMMENTS       | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME   | SAMPLE CONDITIONS |   |   |   |
|---------------------------|-------------------------------|---------|------|---------------------------|---------|--------|-------------------|---|---|---|
| Metals: Ca, Mg + Hardness | Mike Frangione D+B            | 5/27/22 | 1141 | Dyed Hyde                 | 5/27/22 | 11:45a | 5-8               | Y | N | Y |
|                           |                               |         |      |                           |         |        |                   |   |   |   |
|                           |                               |         |      |                           |         |        |                   |   |   |   |
|                           |                               |         |      |                           |         |        |                   |   |   |   |

## SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Mike Frangione

SIGNATURE of SAMPLER:

Mike Frangione

DATE Signed:

5/27/2022

TEMP in C

Received on  
Ice (Y/N)Custody  
Sealed (Y/N)Cooler  
(Y/N)Samples  
Intact (Y/N)



## **APPENDIX G**

### **DATA VALIDATION FORMS**

## DATA VALIDATION CHECKLIST

|                           |                                                                                                                                                                                                                                                                                                                                                              |       |           |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|
| Project Name:             | East Northport SA Landfill                                                                                                                                                                                                                                                                                                                                   |       |           |
| Project Number:           | 5629                                                                                                                                                                                                                                                                                                                                                         |       |           |
| Sample Date(s):           | May 18-25, 2022                                                                                                                                                                                                                                                                                                                                              |       |           |
| Sample Team:              | Keith Robins                                                                                                                                                                                                                                                                                                                                                 |       |           |
| Matrix/Number of Samples: | <u>Ground Water (GW)/ 11</u><br><u>Field Duplicates/ 1</u><br><u>Trip Blanks / 4</u><br><u>Field Blanks/ 1</u>                                                                                                                                                                                                                                               |       |           |
| Analyzing Laboratory:     | Pace Analytical., Melville, NY                                                                                                                                                                                                                                                                                                                               |       |           |
| Analyses:                 | <u>Volatile Organic Compounds (VOCs):</u> by USEPA 624.1<br><u>Metals:</u> by USEPA 6010C and mercury by USEPA 7470A<br><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:     | 70215314                                                                                                                                                                                                                                                                                                                                                     | Date: | 6/10/2022 |

## 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.

**SDG: 70215314**  
**SAMPLE AND ANALYSIS LIST**

| Sample ID          | Lab ID      | Sample Collection Date | Blind Sample | Analysis |      |     |      |
|--------------------|-------------|------------------------|--------------|----------|------|-----|------|
|                    |             |                        |              | VOC      | SVOC | MET | MISC |
| TRIP BLANK         | 70215314001 | 5/18/2022              |              | X        |      |     |      |
| CW-1M              | 70215314002 | 5/18/2022              |              | X        |      | X   | X    |
| CW-1S              | 70215314003 | 5/18/2022              |              | X        |      | X   | X    |
| CW-4M              | 70215314004 | 5/18/2022              |              | X        |      | X   | X    |
| CW-4S              | 70215314005 | 5/18/2022              |              | X        |      | X   | X    |
| TRIP BLANK         | 70215314007 | 5/20/2022              |              | X        |      |     |      |
| EN6_S              | 70215314008 | 5/20/2022              |              | X        |      | X   | X    |
| EN6_M              | 70215314009 | 5/20/2022              |              | X        |      | X   | X    |
| EN9_M              | 70215314010 | 5/20/2022              |              | X        |      | X   | X    |
| CW2_M              | 70215314011 | 5/20/2022              |              | X        |      | X   | X    |
| TRIP BLANK         | 70215314012 | 5/23/2022              |              | X        |      |     |      |
| EN7-M              | 70215314013 | 5/23/2022              |              | X        |      | X   | X    |
| EN1-M              | 70215314014 | 5/23/2022              |              | X        |      | X   | X    |
| TRIP BLANK         | 70215314015 | 5/25/2022              |              | X        |      | X   | X    |
| FIELD BLANK        | 70215314016 | 5/25/2022              |              | X        |      | X   | X    |
| BLIND<br>DUPLICATE | 70215314017 | 5/25/2022              | EN10-M       | X        |      | X   | X    |
| EN10-M             | 70215314018 | 5/25/2022              |              | 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:

- 3&4. The %Rs were above the QC limits in the MS and/or for 1,1-dichloroethane associated with samples TB52522, Field Blank, BLIND DUPLICATE, EN10-M, EN7-M, EN-1M, and TB52322 and 1,1-dichloroethane associated with samples TB52522, Field Blank, BLIND DUPLICATE, and EN10-M. 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, total xylene, and vinyl chloride associated with samples EN6-S, EN6-M, EN9-M, and CW2-M and 2-chloroethylvinyl ether TB52522, Field Blank, BLIND DUPLICATE, and EN10-M. 2-Chloroethylvinyl ether, total xylene, and vinyl chloride were qualified as an estimated limit (UJ) in associated samples.

5. The RPD was above the QC limit in the MS/MSD for total xylene associated with samples EN6-S, EN6-M, EN9-M, and CW2-M. It was not detected in the samples; therefore, qualification of the data was not necessary.

**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, with the following exception:

- 2A. Potassium was detected in the initial calibration blank, and qualification of the data was not necessary.

**INORGANIC ANALYSES  
GENERAL CHEMISTRY**

|                                           | Reported |     | Performance Acceptable |     | Not      |
|-------------------------------------------|----------|-----|------------------------|-----|----------|
|                                           | No       | Yes | No                     | Yes | Required |
| 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&B. Chloride, nitrate, and sulfate were detected in the blanks. No qualification of the data was necessary.

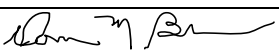
6&7. The %Rs were below the QC limit in the MS and/or LCS for alkalinity, carbonate ( $\text{CaCO}_3$ ) associated with samples EN6\_M, EN6\_S, EN9\_M, CW2\_M, EN7-M, EN1-M, BLIND DUPLICATE, EN10-M, and FIELD BLANK; and total and bicarbonate alkalinity associated with samples EN6\_M, EN6\_S, EN9\_M, and CW2\_M, and were qualified as estimated (J/UJ).

7. The %R was above the QC limit in the MS for nitrate associated with samples EN7-M and EN1-M. Nitrate was detected above the reporting limit in samples EN7-M and EN1-M and were qualified as estimated (J).

8. The RPD were above the QC limits in the duplicate for total dissolved solids all samples except EN7-M and EN1-M and nitrate associated with samples FIELD BLANK, BLIND DUPLICATE, and EN10-M. The following were qualified as estimated (J): nitrate in samples BLIND DUPLICATE, and EN10-M and total dissolved solids all samples except Field blank, EN7-M, and EN1-M.

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**
**Laboratory Numbers:70215314**

| Sample ID                                                                          | Analyte(s)                                 | Qualifier | Reason(s)                                          |
|------------------------------------------------------------------------------------|--------------------------------------------|-----------|----------------------------------------------------|
| <b><u>VOCs</u></b>                                                                 |                                            |           |                                                    |
| EN6-S, EN6-M, EN9-M, CW2-M, TB52522, Field Blank, BLIND DUPLICATE, and EN10-M      | 2-Chloroethylvinyl ether                   | UJ        | The %R was below the QC limit in the MS and MSD    |
| EN6-S, EN6-M, EN9-M, and CW2-M                                                     | Total xylene, and vinyl chloride           |           |                                                    |
|                                                                                    |                                            |           |                                                    |
| <b><u>Metals</u></b>                                                               |                                            |           |                                                    |
| No qualification of the data was necessary.                                        |                                            |           |                                                    |
|                                                                                    |                                            |           |                                                    |
| <b><u>General Chemistry</u></b>                                                    |                                            |           |                                                    |
| EN6_M, EN6_S, EN9_M, CW2_M, EN7-M, EN1-M, BLIND DUPLICATE, EN10-M, and FIELD BLANK | Alkalinity, carbonate (CaCO <sub>3</sub> ) | J/UJ      | The %R was below the QC limit in the MS and/or LCS |
| EN6_M, EN6_S, EN9_M, and CW2_M,                                                    | Total and bicarbonate alkalinity           |           |                                                    |
|                                                                                    |                                            |           |                                                    |
| EN7-M and EN1-M                                                                    | Nitrate                                    | J         | The %R was above the QC limit in the MS            |
|                                                                                    |                                            |           |                                                    |
| All samples except Field blank, EN7-M, and EN1-M                                   | Total dissolved solids                     | J         | The RPD were above the QC limits in the duplicate  |
| BLIND DUPLICATE, and EN10-M                                                        | Nitrate                                    |           |                                                    |

|                                    |                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------|
| VALIDATION PERFORMED BY & DATE:    | Donna M. Brown 7/1/2022                                                              |
| VALIDATION PERFORMED BY SIGNATURE: |  |

## DATA VALIDATION CHECKLIST

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Project Name:             | East Northport SA Landfill                                                                                           |
| Project Number:           | 5629                                                                                                                 |
| Sample Date(s):           | May 23 and 25, 2022                                                                                                  |
| Sample Team:              | Keith Robins                                                                                                         |
| Matrix/Number of Samples: | <u>Water/ 1</u><br><u>Field Duplicate/ 0</u><br><u>Trip Blank/ 0</u><br><u>Field Blank/ 1</u>                        |
| Analyzing Laboratory:     | Pace Analytical (Con-test), Longmeadow, MA, Eurofins TestAmerica, Amherst, NY                                        |
| Analyses:                 | <u>Per- and Polyfluoroalkyl Substances (PFAS): by SOP-454 at MA</u><br><u>1,4-Dioxane: by method 8270D Sim at NY</u> |
| Laboratory Report No:     | 70215927                                                                                                             |
|                           | Date: 7/19/2022                                                                                                      |

## 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, Sampling, Analysis, and Assessment Of Per- and Polyfluoroalkyl Substance (PFAS) Under NYSDEC's Part 375 Remedial Programs June 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:70215927**  
**SAMPLE AND ANALYSIS LIST**

| Sample ID   | Lab ID       | Sample Collection Date | Parent Sample | Analysis |             |      |      |
|-------------|--------------|------------------------|---------------|----------|-------------|------|------|
|             |              |                        |               | VOC      | 1,4-Dioxane | PFAS | MISC |
| EN1-M       | 480-198248-1 | 5/23/2022              |               |          | X           |      |      |
| EN7-M       | 480-198248-1 | 5/23/2022              |               |          | X           |      |      |
| EN-10M      | 480-198416-1 | 5/25/2022              |               |          | X           |      |      |
| FIELD BLANK | 480-198416-2 | 5/25/2022              |               |          | X           |      |      |
| BLIND DUP   | 480-198416-3 | 5/25/2022              | EN-10M        |          | X           |      |      |
| EN1-M       | 22E1781-01   | 5/23/2022              |               |          |             | X    |      |
| EN7-M       | 22E1781-02   | 5/23/2022              |               |          |             | X    |      |
| EN-10M      | 22E1781-03   | 5/25/2022              |               |          |             | X    |      |
| FIELD BLANK | 22E1781-04   | 5/25/2022              |               |          |             | X    |      |
| BLIND DUP   | 22E1781-05   | 5/25/2022              | EN-10M        |          |             | 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                      |     | X            |
| 4. Matrix spike duplicate (MSD) %R             |          | X   | X                      |     | X            |
| 5. MS/MSD precision (RPD)                      |          | X   | X                      |     | X            |
| 6. Laboratory control sample (LCS) %R          |          | X   |                        | X   |              |
| 7. Surrogate spike recoveries                  |          | X   |                        | X   |              |
| 8. Instrument performance check                |          | X   |                        | X   |              |
| 9. Internal standard retention times and areas |          | X   | X                      |     |              |
| 10. Initial calibration RRF's and %RSD's       |          | X   |                        | X   |              |
| 11. Continuing calibration RRF's and %D's      |          | X   |                        | X   |              |
| 12. Transcriptions – quant report vs. Form I   |          | X   |                        | X   |              |
| 13. Field Blind Duplicate                      |          | X   |                        | X   |              |

VOCs - volatile organic compounds

%D - percent difference

RRF - relative response factor

%R - percent recovery

%RSD - percent relative standard deviation

RPD - relative percent difference

#### Comments:

Performance was acceptable, with the following exception:

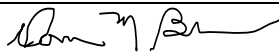
- The holding time was exceeded for 1,4-dioxane for samples EN1-M and EN7-M. 1,4-Dioxane was qualified as estimated (J) in samples EN1-M and EN7-M.
- 3-5. The %R was below the QC limit in the MS for perfluoroheptanoic acid (PFHpA). The %Rs were above the QC limits in the MS and/or MSD for perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), perfluorodecanesulfonic acid (PFDS), and perfluorohexanesulfonic acid (PFHxS). The RPD was above the QC limits in the MS/MSD for perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), and 6:2 fluorotelomersulfonic acid (6:2FTS A). Sample EN7-M was used for the MS and MSD analysis and was qualified as estimated (J/UJ) for perfluoroheptanoic acid (PFHpA), perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), perfluorodecanesulfonic acid (PFDS), 1H,1H,2H,2H-perfluorooctane sulfonate (6:2), and perfluorohexanesulfonic acid (PFHxS).
9. The internal standard area was above the QC limit for M2-6:2FTS associated with 1H,1H,2H,2H-perfluorooctane sulfonate (6:2) in sample EN7-M. The internal standard area was below the QC limits for M8FOSA, associated with perfluoroheptanesulfonic acid (PFHpS) and perfluorooctanesulfonic acid (PFOS); M2PFTA associated with perfluorotetradecanoic acid (PFTA) and perfluorotridecanoic acid (PFTrDA); MPFBA associated with perfluorobutanoic acid (PFBA); M3PFBS associated with perfluorobutanesulfonic acid

(PFBS) and perfluorodecanesulfonic acid (PFDS); and M5PFPeA associated with perfluoropentanoic acid (PFPeA) in sample EN7-M and M2-6:2FTS associated with 1H,1H,2H,2H-perfluorooctane sulfonate (6:2) in sample EN10-M and Blind Duplicate.

The following PFAs were detected above the reporting limit and qualified as estimated (J): perfluorooctanesulfonic acid (PFOS), perfluorobutanoic acid (PFBA), perfluorobutanesulfonic acid (PFBS), and perfluoropentanoic acid (PFPeA) in sample EN7-M.

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**
**Laboratory Numbers: 70215927**

| Sample ID                 | Analyte(s)                                                                                                                                                                                                                                                                   | Qualifier | Reason(s)                                                                                                               |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------|
| <b><u>PFA</u></b>         |                                                                                                                                                                                                                                                                              |           |                                                                                                                         |
| EN7-M                     | Perfluoroheptanoic acid (PFHpA), perfluorobutanesulfonic acid (PFBS), perfluoroheptanesulfonic acid (PFHpS), perfluorotridecanoic acid (PFTrDA), perfluorodecanesulfonic acid (PFDS), 1H,1H,2H,2H-perfluorooctane sulfonate (6:2), and perfluorohexanesulfonic acid (PFHxS). | J/UJ      | The %Rs were outside the QC limits in the MS and/or MSD. The RPDs were also above QC limits for some PFAS in the MS/MSD |
| EN7-M                     | Perfluorooctanesulfonic acid (PFOS), perfluorobutanoic acid (PFBA), perfluorobutanesulfonic acid (PFBS), and perfluoropentanoic acid (PFPeA)                                                                                                                                 | J         | The internal standard area were outside the QC limits                                                                   |
| <b><u>1,4-Dioxane</u></b> |                                                                                                                                                                                                                                                                              |           |                                                                                                                         |
| EN1-M and EN7-M           | 1,4-Dioxane                                                                                                                                                                                                                                                                  | J         | The holding time was exceeded                                                                                           |

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| VALIDATION PERFORMED BY & DATE:       | Donna M. Brown 7/28/2022                                                             |
| VALIDATION PERFORMED BY<br>SIGNATURE: |  |

## DATA VALIDATION CHECKLIST

|                           |                                                                                                                                                                                                                                                                                                                                        |       |          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|
| Project Name:             | East Northport SA Landfill                                                                                                                                                                                                                                                                                                             |       |          |
| Project Number:           | 5629                                                                                                                                                                                                                                                                                                                                   |       |          |
| Sample Date(s):           | May 27, 2022                                                                                                                                                                                                                                                                                                                           |       |          |
| Sample Team:              | Keith Robins                                                                                                                                                                                                                                                                                                                           |       |          |
| Matrix/Number of Samples: | <u>Surface Water (SW)/ 7</u><br><u>Field Duplicates/ 0</u><br><u>Trip Blanks / 5</u><br><u>Field Blanks/ 0</u>                                                                                                                                                                                                                         |       |          |
| Analyzing Laboratory:     | Pace Analytical., Melville, NY                                                                                                                                                                                                                                                                                                         |       |          |
| Analyses:                 | <u>Volatile Organic Compounds (VOCs):</u> by USEPA 624.1<br><u>Metals:</u> by SW846 6010C (SW)<br><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:     | 70216287                                                                                                                                                                                                                                                                                                                               | Date: | 6/7/2022 |

## 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.

**SDG: 70216287**  
**SAMPLE AND ANALYSIS LIST**

| Sample ID  | Lab ID      | Sample<br>Collection<br>Date | Blind<br>Sample | Analysis |      |     |      |
|------------|-------------|------------------------------|-----------------|----------|------|-----|------|
|            |             |                              |                 | VOC      | SVOC | MET | MISC |
| TRIP BLANK | 70216287001 | 5/27/2022                    |                 | X        |      |     |      |
| SW-1       | 70216287002 | 5/27/2022                    |                 | X        |      | X   | X    |
| SW-2       | 70216287003 | 5/27/2022                    |                 | X        |      | X   | X    |
| SW-3       | 70216287004 | 5/27/2022                    |                 | X        |      | X   | X    |
| SW-4       | 70216287005 | 5/27/2022                    |                 | X        |      | X   | X    |
| SW-5       | 70216287006 | 5/27/2022                    |                 | X        |      | X   | X    |
| SW-6       | 70216287007 | 5/27/2022                    |                 | X        |      | X   | X    |
| SW-7       | 70216287008 | 5/27/2022                    |                 | X        |      | X   | X    |

## ORGANIC ANALYSES

### VOCS

|                                                | Reported |     | Performance Acceptable |     | Not      |
|------------------------------------------------|----------|-----|------------------------|-----|----------|
|                                                | No       | Yes | No                     | Yes | Required |
| 1. Holding times                               |          | X   |                        | X   |          |
| 2. Blanks                                      |          |     |                        |     |          |
| A. Method blanks                               |          | X   |                        | X   |          |
| B. Trip blanks                                 |          | X   |                        | X   |          |
| C. Field blanks                                |          |     |                        |     | 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        |
| 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:

- 3-4. The %Rs were above the QC limits in the MS 1,1-dichloroethane and 1,1-dichloroethane associated with all samples. 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 all samples. 2-Chloroethylvinyl ether was qualified as an estimated (UJ) in the associated samples.

**INORGANIC ANALYSES  
METALS**

|                                           | Reported |     | Performance Acceptable |     | Not      |
|-------------------------------------------|----------|-----|------------------------|-----|----------|
|                                           | No       | Yes | No                     | Yes | Required |
| 1. Holding times                          |          | X   |                        | X   |          |
| 2. Blanks                                 |          |     |                        |     |          |
| A. Method and calibration blanks          |          | X   |                        | X   |          |
| B. Field blanks                           |          |     |                        |     | 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        |

%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.



**INORGANIC ANALYSES  
GENERAL CHEMISTRY**

|                                           | Reported |     | Performance Acceptable |     | Not      |
|-------------------------------------------|----------|-----|------------------------|-----|----------|
|                                           | No       | Yes | No                     | Yes | Required |
| 1. Holding times                          |          | X   |                        | X   |          |
| 2. Blanks                                 |          |     |                        |     |          |
| A. Laboratory blanks                      |          | X   | X                      |     |          |
| B. Field blanks                           |          |     |                        |     | 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        |

%R percent recovery

RPD - relative percent difference

%D – percent difference

RSD - relative standard deviation

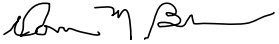
Comments:

Performance was acceptable, with the following exception:

- 2A. Chloride and nitrate-nitrite were detected in the blank. Nitrate and nitrate-nitrite were non-detect (UB) in sample SW-7 based on blank results.
- 6&7. The %Rs were below the QC limit in the LCS and/or spike for alkalinity, carbonate (CaCO<sub>3</sub>), nitrate, and nitrite associated with all samples. It was qualified as estimated (J/UJ) in all the samples.

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**
**Laboratory Numbers:70216287**

| Sample ID                                   | Analyte(s)                                                      | Qualifier | Reason(s)                                             |
|---------------------------------------------|-----------------------------------------------------------------|-----------|-------------------------------------------------------|
| <b><u>VOCs</u></b>                          |                                                                 |           |                                                       |
| All samples                                 | 2-Chloroethylvinyl ether                                        | UJ        | The %R was below the QC limit in the MS and MSD       |
|                                             |                                                                 |           |                                                       |
| <b><u>Metals</u></b>                        |                                                                 |           |                                                       |
| No qualification of the data was necessary. |                                                                 |           |                                                       |
|                                             |                                                                 |           |                                                       |
| <b><u>General Chemistry</u></b>             |                                                                 |           |                                                       |
| SW-7                                        | Nitrate and nitrate-nitrite                                     | UB        | Detected in the blank                                 |
|                                             |                                                                 |           |                                                       |
| All samples                                 | Alkalinity,carbonate (CaCO <sub>3</sub> ), nitrate, and nitrite | J/UJ      | The %R was below the QC limit in the LCS and/or spike |

|                                       |                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------|
| VALIDATION PERFORMED BY & DATE:       | Donna M. Brown 7/1/2022                                                            |
| VALIDATION PERFORMED BY<br>SIGNATURE: |  |

## **APPENDIX H**

### **LABORATORY DATA PACKAGE**

June 10, 2022

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

RE: Project: EAST NORTHPORT GROUNDWATER  
Pace Project No.: 70215314

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between May 19, 2022 and May 26, 2022. 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

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Donna Brown, D&B Engineers and Architects, P.C.  
Tom Fox, D&B Engineers and Architects, P.C.  
Robbin Petrella, D&B Engineers and Architects, P.C.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

### **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

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## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** SM22 2340B

**Description:** 2340B Hardness, Total (Calc.)

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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 GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 6010C

**Description:** 6010 MET ICP

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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.

QC Batch: 258278

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215314013, 70215880003

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

- MS (Lab ID: 1304187)
- 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 GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 7470A

**Description:** 7470 Mercury

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 samples were analyzed for EPA 7470A 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 7470A 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 GROUNDWATER

Pace Project No.: 70215314

**Method:** EPA 624.1

**Description:** 624.1 Volatile Organics

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

18 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: 257599

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: 1300556)
  - Dichlorodifluoromethane
- CW-1M\_5/18/2022 (Lab ID: 70215314002)
  - Dichlorodifluoromethane
- CW-1S\_5/18/2022 (Lab ID: 70215314003)
  - Dichlorodifluoromethane
- CW-4M\_5/18/2022 (Lab ID: 70215314004)
  - Dichlorodifluoromethane
- CW-4S\_5/18/2022 (Lab ID: 70215314005)
  - Dichlorodifluoromethane
- LCS (Lab ID: 1300557)
  - Dichlorodifluoromethane
- STORAGE BLANK 5/19/2022 (Lab ID: 70215314006)
  - Dichlorodifluoromethane
- TRIP BLANK\_5/18/2022 (Lab ID: 70215314001)
  - Dichlorodifluoromethane

QC Batch: 257810

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: 1301753)
  - Dichlorodifluoromethane
- CW2-M\_5/20/2022 (Lab ID: 70215314011)
  - Dichlorodifluoromethane
- EN6-M\_5/20/2022 (Lab ID: 70215314009)
  - Dichlorodifluoromethane
- EN6-S\_5/20/2022 (Lab ID: 70215314008)
  - Dichlorodifluoromethane
- EN9-M\_5/20/2022 (Lab ID: 70215314010)

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 624.1

**Description:** 624.1 Volatile Organics

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

QC Batch: 257810

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
- LCS (Lab ID: 1301754)
  - Dichlorodifluoromethane
- MS (Lab ID: 1303076)
  - Dichlorodifluoromethane
- MSD (Lab ID: 1303077)
  - Dichlorodifluoromethane
- TRIP BLANK\_5/20/2022 (Lab ID: 70215314007)
  - Dichlorodifluoromethane

QC Batch: 258591

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: 1305338)
  - Dichlorodifluoromethane
- BLIND DUPLICATE\_5/25/2024 (Lab ID: 70215314017)
  - Dichlorodifluoromethane
- EN 10-M\_5/25/2025 (Lab ID: 70215314018)
  - Dichlorodifluoromethane
- FIELD BLANK\_5/25/2023 (Lab ID: 70215314016)
  - Dichlorodifluoromethane
- LCS (Lab ID: 1305339)
  - Dichlorodifluoromethane
- MS (Lab ID: 1305612)
  - Dichlorodifluoromethane
- MSD (Lab ID: 1305613)
  - Dichlorodifluoromethane
- TRIP BLANK\_5/25/2022 (Lab ID: 70215314015)
  - 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.

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 624.1

**Description:** 624.1 Volatile Organics

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### Matrix Spikes:

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

QC Batch: 257810

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215546001

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

- MS (Lab ID: 1303076)
  - 2-Chloroethylvinyl ether
  - Vinyl chloride
- MSD (Lab ID: 1303077)
  - 2-Chloroethylvinyl ether
  - Vinyl chloride

MS: Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

- MS (Lab ID: 1303076)
  - Xylene (Total)
- MSD (Lab ID: 1303077)
  - Xylene (Total)

QC Batch: 258091

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215314013

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

- MS (Lab ID: 1305494)
  - 1,1-Dichloroethane

QC Batch: 258591

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70216204001

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

- MS (Lab ID: 1305612)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene

### Additional Comments:

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** SM22 2320B

**Description:** 2320B Alkalinity

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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: 258691

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: 1305921)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

QC Batch: 259040

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: 1307568)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

### Matrix Spikes:

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

QC Batch: 258691

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215886002

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

- MS (Lab ID: 1305923)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

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

- MS (Lab ID: 1305923)
- Alkalinity, Total as CaCO<sub>3</sub>

QC Batch: 258734

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215314013

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

- MS (Lab ID: 1306049)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** SM22 2320B

**Description:** 2320B Alkalinity

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

QC Batch: 259040

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215880003

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

- MS (Lab ID: 1307570)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

### 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 GROUNDWATER

Pace Project No.: 70215314

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**Method:** SM22 2540C

**Description:** 2540C Total Dissolved Solids

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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.

QC Batch: 257899

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1302398)
- Total Dissolved Solids

QC Batch: 258082

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1303369)
- Total Dissolved Solids

QC Batch: 258865

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1306581)
- Total Dissolved Solids

### Additional Comments:

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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.

QC Batch: 258656

B: Analyte was detected in the associated method blank.

- BLANK for HBN 258656 [WETA/410 (Lab ID: 1305837)
- Chloride

### 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: 257935

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215144001,70215752001

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

- MS (Lab ID: 1302470)
- Chloride

QC Batch: 258345

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215314013,70215727010

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

- MS (Lab ID: 1304358)
- Chloride

### 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 GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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: 258111

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215314013, 70215886002

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

- MS (Lab ID: 1303784)
  - Nitrate-Nitrite (as N)
- MS (Lab ID: 1303792)
  - Nitrate-Nitrite (as N)

QC Batch: 258485

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70216190001, 70216196001

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

- MS (Lab ID: 1305143)
  - Nitrate-Nitrite (as N)

### Duplicate Sample:

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

QC Batch: 258485

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1305144)
  - Nitrate-Nitrite (as N)

### Additional Comments:

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## PROJECT NARRATIVE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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.

H1: Analysis conducted outside the EPA method holding time.

- BLIND DUPLICATE\_5/25/2024 (Lab ID: 70215314017)

### 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: 258065

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215314013

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

- MS (Lab ID: 1303308)
- Nitrite as N

QC Batch: 258442

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70216080001,70216196001

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

- MS (Lab ID: 1304842)
- 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 GROUNDWATER

Pace Project No.: 70215314

---

**Method:** SM22 4500 NH3 H

**Description:** 4500 Ammonia Water

**Client:** Dvirka & Bartilucci

**Date:** June 10, 2022

### General Information:

13 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 GROUNDWATER

Pace Project No.: 70215314

| Sample: TRIP BLANK_5/18/2022 |         | Lab ID: 70215314001                                                 |              | Collected: 05/18/22 00:00 |          | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|------------------------------|---------|---------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                   | Results | Units                                                               | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics      |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Benzene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 71-43-2    |               |  |
| Bromodichloromethane         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-27-4    |               |  |
| Bromoform                    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-25-2    |               |  |
| Bromomethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 74-83-9    |               |  |
| Carbon tetrachloride         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 56-23-5    |               |  |
| Chlorobenzene                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 108-90-7   |               |  |
| Chloroethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-00-3    |               |  |
| Chloroform                   | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 67-66-3    |               |  |
| Chloromethane                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 74-87-3    |               |  |
| Dibromochloromethane         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 106-46-7   |               |  |
| Dichlorodifluoromethane      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-34-3    |               |  |
| 1,2-Dichloroethane           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 107-06-2   |               |  |
| 1,1-Dichloroethene           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene     | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 156-60-5   |               |  |
| 1,2-Dichloropropane          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 10061-02-6 |               |  |
| Ethylbenzene                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 100-41-4   |               |  |
| Methylene Chloride           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 79-34-5    |               |  |
| Tetrachloroethene            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 127-18-4   |               |  |
| Toluene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane        | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane        | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 79-00-5    |               |  |
| Trichloroethene              | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 79-01-6    |               |  |
| Trichlorofluoromethane       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-69-4    |               |  |
| Vinyl chloride               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 75-01-4    |               |  |
| Xylene (Total)               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 17:52           | 1330-20-7  |               |  |
| Surrogates                   |         |                                                                     |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)     | 93      | %                                                                   | 80-110       | 1                         |          | 05/20/22 17:52           | 460-00-4   |               |  |
| Toluene-d8 (S)               | 95      | %                                                                   | 87-120       | 1                         |          | 05/20/22 17:52           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)    | 109     | %                                                                   | 76-127       | 1                         |          | 05/20/22 17:52           | 17060-07-0 |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-1M_5/18/2022        |         | Lab ID: 70215314002                                                                               |              | Collected: 05/18/22 10:35 |                | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 107000  | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:02           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | 83.4J   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7440-43-9  |               |  |
| Calcium                        | 21400   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7440-47-3  |               |  |
| Iron                           | 7430    | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7439-92-1  |               |  |
| Magnesium                      | 13100   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7439-95-4  |               |  |
| Potassium                      | 2420J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7440-09-7  |               |  |
| Sodium                         | 10600   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:02           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:38           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:24           | 100-41-4   |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-1M_5/18/2022        |         | Lab ID: 70215314002                                                       |              | Collected: 05/18/22 10:35 |          | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:24           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 94      | %                                                                         | 80-110       | 1                         |          | 05/20/22 19:24           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 97      | %                                                                         | 87-120       | 1                         |          | 05/20/22 19:24           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 107     | %                                                                         | 76-127       | 1                         |          | 05/20/22 19:24           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 48.7    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 09:43           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 48.7    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 09:43           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 09:43           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 152     | mg/L                                                                      | 10.0         | 1                         |          | 05/24/22 13:15           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 21.2    | mg/L                                                                      | 2.0          | 1                         |          | 05/23/22 23:48           | 16887-00-6 |               |  |
| Sulfate                        | 54.3    | mg/L                                                                      | 5.0          | 1                         |          | 05/23/22 23:48           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 0.054   | mg/L                                                                      | 0.050        | 1                         |          | 05/20/22 16:28           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 0.057   | mg/L                                                                      | 0.050        | 1                         |          | 05/20/22 16:28           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/19/22 23:49           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 05/22/22 13:40           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-1S_5/18/2022        |         | Lab ID: 70215314003                                                                               |              | Collected: 05/18/22 11:50 |                | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 155000  | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:19           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7429-90-5  |               |  |
| Arsenic                        | 38.6    | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7440-43-9  |               |  |
| Calcium                        | 41500   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7440-47-3  |               |  |
| Iron                           | 19000   | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7439-92-1  |               |  |
| Magnesium                      | 12500   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7439-95-4  |               |  |
| Potassium                      | 30000   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7440-09-7  |               |  |
| Sodium                         | 68300   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:19           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | 0.094J  | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:40           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 56-23-5    |               |  |
| Chlorobenzene                  | 1.0     | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 19:05           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-1S_5/18/2022        |         | Lab ID: 70215314003                                                       |              | Collected: 05/18/22 11:50 |          | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 19:05           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 92      | %                                                                         | 80-110       | 1                         |          | 05/20/22 19:05           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 96      | %                                                                         | 87-120       | 1                         |          | 05/20/22 19:05           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 107     | %                                                                         | 76-127       | 1                         |          | 05/20/22 19:05           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 256     | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 09:55           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 256     | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 09:55           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 09:55           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 374     | mg/L                                                                      | 10.0         | 1                         |          | 05/24/22 13:15           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 47.0    | mg/L                                                                      | 2.0          | 1                         |          | 05/24/22 00:02           | 16887-00-6 |               |  |
| Sulfate                        | 94.1    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 00:02           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 0.14    | mg/L                                                                      | 0.050        | 1                         |          | 05/20/22 16:29           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 0.14    | mg/L                                                                      | 0.050        | 1                         |          | 05/20/22 16:29           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/19/22 23:50           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 35.2    | mg/L                                                                      | 1.0          | 10                        |          | 05/22/22 14:04           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-4M_5/18/2022        |         | Lab ID: 70215314004                                                                               |              | Collected: 05/18/22 15:40 |                | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 96300   | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:21           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7440-43-9  |               |  |
| Calcium                        | 23300   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7440-47-3  |               |  |
| Iron                           | <100    | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7439-92-1  |               |  |
| Magnesium                      | 9250    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7439-95-4  |               |  |
| Potassium                      | 1470J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7440-09-7  |               |  |
| Sodium                         | 17100   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:21           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:41           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:47           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-4M_5/18/2022        |         | Lab ID: 70215314004                                                       |              | Collected: 05/18/22 15:40 |          | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:47           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 94      | %                                                                         | 80-110       | 1                         |          | 05/20/22 18:47           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 95      | %                                                                         | 87-120       | 1                         |          | 05/20/22 18:47           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 113     | %                                                                         | 76-127       | 1                         |          | 05/20/22 18:47           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 36.1    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 10:02           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 36.1    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 10:02           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 10:02           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 164     | mg/L                                                                      | 10.0         | 1                         |          | 05/24/22 13:16           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 33.1    | mg/L                                                                      | 2.0          | 1                         |          | 05/24/22 00:56           | 16887-00-6 |               |  |
| Sulfate                        | 30.4    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 00:56           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 5.6     | mg/L                                                                      | 0.25         | 5                         |          | 05/20/22 16:30           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 5.6     | mg/L                                                                      | 0.25         | 5                         |          | 05/20/22 16:30           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/19/22 23:56           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 05/22/22 13:42           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-4S_5/18/2022        |         | Lab ID: 70215314005                                                                               |              | Collected: 05/18/22 16:50 |                | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 73400   | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:24           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7440-38-2  |               |  |
| Cadmium                        | 0.68J   | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7440-43-9  |               |  |
| Calcium                        | 18200   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7440-47-3  |               |  |
| Iron                           | 147     | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7439-92-1  |               |  |
| Magnesium                      | 6780    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7439-95-4  |               |  |
| Potassium                      | 3920J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7440-09-7  |               |  |
| Sodium                         | 17900   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:24           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:43           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/20/22 18:29           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW-4S_5/18/2022        |         | Lab ID: 70215314005                                                       |              | Collected: 05/18/22 16:50 |          | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/20/22 18:29           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 92      | %                                                                         | 80-110       | 1                         |          | 05/20/22 18:29           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 97      | %                                                                         | 87-120       | 1                         |          | 05/20/22 18:29           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 110     | %                                                                         | 76-127       | 1                         |          | 05/20/22 18:29           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 29.8    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 10:08           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 29.8    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 10:08           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/26/22 10:08           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 168     | mg/L                                                                      | 10.0         | 1                         |          | 05/24/22 13:16           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 35.8    | mg/L                                                                      | 2.0          | 1                         |          | 05/24/22 01:10           | 16887-00-6 |               |  |
| Sulfate                        | 21.2    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 01:10           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 5.7     | mg/L                                                                      | 0.25         | 5                         |          | 05/20/22 16:31           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 5.7     | mg/L                                                                      | 0.25         | 5                         |          | 05/20/22 16:31           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/19/22 23:57           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.17    | mg/L                                                                      | 0.10         | 1                         |          | 05/22/22 13:43           | 7664-41-7  |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: STORAGE BLANK<br>5/19/2022 |         | Lab ID: 70215314006                                                 |              | Collected: 05/19/22 00:00 |          | Received: 05/19/22 09:18 |            | Matrix: Water |  |
|------------------------------------|---------|---------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                         | Results | Units                                                               | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics            |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Benzene                            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 71-43-2    |               |  |
| Bromodichloromethane               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-27-4    |               |  |
| Bromoform                          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-25-2    |               |  |
| Bromomethane                       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 74-83-9    |               |  |
| Carbon tetrachloride               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 56-23-5    |               |  |
| Chlorobenzene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 108-90-7   |               |  |
| Chloroethane                       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 110-75-8   |               |  |
| Chloroform                         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 67-66-3    |               |  |
| Chloromethane                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 74-87-3    |               |  |
| Dibromochloromethane               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 106-46-7   |               |  |
| Dichlorodifluoromethane            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-34-3    |               |  |
| 1,2-Dichloroethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 107-06-2   |               |  |
| 1,1-Dichloroethene                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene             | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 156-60-5   |               |  |
| 1,2-Dichloropropane                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 10061-02-6 |               |  |
| Ethylbenzene                       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 100-41-4   |               |  |
| Methylene Chloride                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 79-34-5    |               |  |
| Tetrachloroethene                  | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 127-18-4   |               |  |
| Toluene                            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane              | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane              | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 79-00-5    |               |  |
| Trichloroethene                    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 79-01-6    |               |  |
| Trichlorofluoromethane             | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-69-4    |               |  |
| Vinyl chloride                     | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 75-01-4    |               |  |
| Xylene (Total)                     | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/20/22 18:10           | 1330-20-7  |               |  |
| Surrogates                         |         |                                                                     |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)           | 94      | %                                                                   | 80-110       | 1                         |          | 05/20/22 18:10           | 460-00-4   |               |  |
| Toluene-d8 (S)                     | 97      | %                                                                   | 87-120       | 1                         |          | 05/20/22 18:10           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)          | 106     | %                                                                   | 76-127       | 1                         |          | 05/20/22 18:10           | 17060-07-0 |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: TRIP BLANK_5/20/2022 |         | Lab ID: 70215314007                                                 |              | Collected: 05/20/22 00:00 |          | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|------------------------------|---------|---------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                   | Results | Units                                                               | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics      |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| 1,1,1-Trichloroethane        | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 71-55-6    | v3            |  |
| 1,1,2,2-Tetrachloroethane    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 79-34-5    |               |  |
| 1,1,2-Trichloroethane        | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 79-00-5    |               |  |
| 1,1-Dichloroethane           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-34-3    |               |  |
| 1,1-Dichloroethene           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-35-4    |               |  |
| 1,2-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 95-50-1    |               |  |
| 1,2-Dichloroethane           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 107-06-2   |               |  |
| 1,2-Dichloropropane          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 78-87-5    |               |  |
| 1,3-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 106-46-7   |               |  |
| Benzene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 71-43-2    |               |  |
| Bromodichloromethane         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-27-4    |               |  |
| Bromoform                    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-25-2    |               |  |
| Bromomethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 74-83-9    |               |  |
| Carbon tetrachloride         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 56-23-5    |               |  |
| Chlorobenzene                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 108-90-7   |               |  |
| Chloroethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-00-3    |               |  |
| Chloroform                   | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 67-66-3    |               |  |
| Chloromethane                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 74-87-3    |               |  |
| Dibromochloromethane         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 124-48-1   |               |  |
| Dichlorodifluoromethane      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-71-8    |               |  |
| Ethylbenzene                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 100-41-4   |               |  |
| Methylene Chloride           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-09-2    |               |  |
| Tetrachloroethene            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 127-18-4   |               |  |
| Toluene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 108-88-3   |               |  |
| Trichloroethene              | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 79-01-6    |               |  |
| Trichlorofluoromethane       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-69-4    |               |  |
| Vinyl chloride               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 75-01-4    |               |  |
| Xylene (Total)               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 1330-20-7  |               |  |
| cis-1,2-Dichloroethene       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 156-59-2   |               |  |
| cis-1,3-Dichloropropene      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 10061-01-5 |               |  |
| trans-1,2-Dichloroethene     | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 156-60-5   |               |  |
| trans-1,3-Dichloropropene    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/23/22 19:12           | 10061-02-6 |               |  |
| Surrogates                   |         |                                                                     |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)     | 104     | %                                                                   | 80-110       | 1                         |          | 05/23/22 19:12           | 460-00-4   |               |  |
| Toluene-d8 (S)               | 96      | %                                                                   | 87-120       | 1                         |          | 05/23/22 19:12           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)    | 88      | %                                                                   | 76-127       | 1                         |          | 05/23/22 19:12           | 17060-07-0 |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN6-S_5/20/2022        |         | Lab ID: 70215314008                                                                               |              | Collected: 05/20/22 09:35 |                | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 66300   | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:28           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7440-43-9  |               |  |
| Calcium                        | 15800   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7440-70-2  |               |  |
| Chromium                       | 1.5J    | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7440-47-3  |               |  |
| Iron                           | 38.7J   | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7439-92-1  |               |  |
| Magnesium                      | 6520    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7439-95-4  |               |  |
| Potassium                      | 2820J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7440-09-7  |               |  |
| Sodium                         | 42600   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:28           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:49           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:31           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN6-S_5/20/2022        |         | Lab ID: 70215314008                                                       |              | Collected: 05/20/22 09:35 |          | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:31           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 103     | %                                                                         | 80-110       | 1                         |          | 05/23/22 19:31           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 97      | %                                                                         | 87-120       | 1                         |          | 05/23/22 19:31           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 87      | %                                                                         | 76-127       | 1                         |          | 05/23/22 19:31           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 12.3    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:16           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 12.3    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:16           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:16           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 195     | mg/L                                                                      | 10.0         | 1                         |          | 05/25/22 12:18           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 67.2    | mg/L                                                                      | 2.0          | 1                         |          | 05/24/22 20:39           | 16887-00-6 |               |  |
| Sulfate                        | 25.4    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 20:39           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 6.6     | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:54           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 6.6     | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:54           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/21/22 00:06           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.057J  | mg/L                                                                      | 0.10         | 1                         |          | 05/23/22 13:12           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN6-M_5/20/2022        |         | Lab ID: 70215314009                                                                               |              | Collected: 05/20/22 11:15 |                | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 120000  | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:31           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7440-43-9  |               |  |
| Calcium                        | 32600   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7440-47-3  |               |  |
| Iron                           | <100    | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7439-92-1  |               |  |
| Magnesium                      | 9460    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7439-95-4  |               |  |
| Potassium                      | 2980J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7440-09-7  |               |  |
| Sodium                         | 48300   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:31           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:50           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 19:49           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN6-M_5/20/2022        |         | Lab ID: 70215314009                                                       |              | Collected: 05/20/22 11:15 |          | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 19:49           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 105     | %                                                                         | 80-110       | 1                         |          | 05/23/22 19:49           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 97      | %                                                                         | 87-120       | 1                         |          | 05/23/22 19:49           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 87      | %                                                                         | 76-127       | 1                         |          | 05/23/22 19:49           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 52.1    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:22           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 52.1    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:22           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:22           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 259     | mg/L                                                                      | 10.0         | 1                         |          | 05/25/22 12:18           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 93.1    | mg/L                                                                      | 2.0          | 1                         |          | 05/24/22 20:53           | 16887-00-6 |               |  |
| Sulfate                        | 26.4    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 20:53           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 4.7     | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:55           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 4.7     | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:55           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/21/22 00:15           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.055J  | mg/L                                                                      | 0.10         | 1                         |          | 05/23/22 13:13           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN9-M_5/20/2022        |         | Lab ID: 70215314010                                                                               |              | Collected: 05/20/22 13:35 |                | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 138000  | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:33           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7440-43-9  |               |  |
| Calcium                        | 30100   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7440-47-3  |               |  |
| Iron                           | <100    | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7439-92-1  |               |  |
| Magnesium                      | 15200   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7439-95-4  |               |  |
| Potassium                      | 2650J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7440-09-7  |               |  |
| Sodium                         | 82100   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:33           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:52           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:07           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN9-M_5/20/2022        |         | Lab ID: 70215314010                                                       |              | Collected: 05/20/22 13:35 |          | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:07           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 104     | %                                                                         | 80-110       | 1                         |          | 05/23/22 20:07           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 96      | %                                                                         | 87-120       | 1                         |          | 05/23/22 20:07           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 87      | %                                                                         | 76-127       | 1                         |          | 05/23/22 20:07           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 31.6    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:29           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 31.6    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:29           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:29           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 364     | mg/L                                                                      | 10.0         | 1                         |          | 05/25/22 12:20           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 201     | mg/L                                                                      | 10.0         | 5                         |          | 05/26/22 18:23           | 16887-00-6 |               |  |
| Sulfate                        | 18.8    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 21:06           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 0.68    | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:57           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 0.68    | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:57           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/21/22 00:34           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.064J  | mg/L                                                                      | 0.10         | 1                         |          | 05/23/22 13:14           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW2-M_5/20/2022        |         | Lab ID: 70215314011                                                                               |              | Collected: 05/20/22 15:25 |                | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 72700   | ug/L                                                                                              | 830          | 1                         |                | 05/23/22 22:36           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7440-38-2  |               |  |
| Cadmium                        | 0.42J   | ug/L                                                                                              | 2.5          | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7440-43-9  |               |  |
| Calcium                        | 19900   | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7440-47-3  |               |  |
| Iron                           | 70.6J   | ug/L                                                                                              | 100          | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7439-92-1  |               |  |
| Magnesium                      | 5580    | ug/L                                                                                              | 200          | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7439-95-4  |               |  |
| Potassium                      | 4840J   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7440-09-7  |               |  |
| Sodium                         | 22900   | ug/L                                                                                              | 5000         | 1                         | 05/23/22 11:15 | 05/23/22 22:36           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:53           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/23/22 20:26           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: CW2-M_5/20/2022        |         | Lab ID: 70215314011                                                       |              | Collected: 05/20/22 15:25 |          | Received: 05/20/22 16:35 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/23/22 20:26           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 106     | %                                                                         | 80-110       | 1                         |          | 05/23/22 20:26           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 97      | %                                                                         | 87-120       | 1                         |          | 05/23/22 20:26           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 88      | %                                                                         | 76-127       | 1                         |          | 05/23/22 20:26           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 22.5    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:34           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 22.5    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:34           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 09:34           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 159     | mg/L                                                                      | 10.0         | 1                         |          | 05/25/22 12:21           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 31.1    | mg/L                                                                      | 2.0          | 1                         |          | 05/24/22 21:20           | 16887-00-6 |               |  |
| Sulfate                        | 58.6    | mg/L                                                                      | 5.0          | 1                         |          | 05/24/22 21:20           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 1.9     | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:58           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 1.9     | mg/L                                                                      | 0.25         | 5                         |          | 05/21/22 18:58           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/21/22 00:46           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.071J  | mg/L                                                                      | 0.10         | 1                         |          | 05/23/22 13:15           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: TRIP BLANK_5/23/2022 |                                     | Lab ID: 70215314012 |              | Collected: 05/23/22 00:00 |          | Received: 05/24/22 09:40 |            | 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                         |          | 05/25/22 10:21           | 71-43-2    |               |  |
| Bromodichloromethane         | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-27-4    |               |  |
| Bromoform                    | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-25-2    |               |  |
| Bromomethane                 | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 74-83-9    |               |  |
| Carbon tetrachloride         | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 56-23-5    |               |  |
| Chlorobenzene                | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 108-90-7   |               |  |
| Chloroethane                 | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-00-3    |               |  |
| Chloroform                   | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 67-66-3    |               |  |
| Chloromethane                | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 74-87-3    |               |  |
| Dibromochloromethane         | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene          | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene          | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene          | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 106-46-7   |               |  |
| Dichlorodifluoromethane      | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-71-8    |               |  |
| 1,1-Dichloroethane           | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-34-3    |               |  |
| 1,2-Dichloroethane           | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 107-06-2   |               |  |
| 1,1-Dichloroethene           | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene       | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene     | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 156-60-5   |               |  |
| 1,2-Dichloropropane          | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene      | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene    | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 10061-02-6 |               |  |
| Ethylbenzene                 | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 100-41-4   |               |  |
| Methylene Chloride           | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane    | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 79-34-5    |               |  |
| Tetrachloroethene            | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 127-18-4   |               |  |
| Toluene                      | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane        | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane        | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 79-00-5    |               |  |
| Trichloroethene              | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 79-01-6    |               |  |
| Trichlorofluoromethane       | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-69-4    |               |  |
| Vinyl chloride               | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 75-01-4    |               |  |
| Xylene (Total)               | <1.0                                | ug/L                | 1.0          | 1                         |          | 05/25/22 10:21           | 1330-20-7  |               |  |
| Surrogates                   |                                     |                     |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)     | 106                                 | %                   | 80-110       | 1                         |          | 05/25/22 10:21           | 460-00-4   |               |  |
| Toluene-d8 (S)               | 98                                  | %                   | 87-120       | 1                         |          | 05/25/22 10:21           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)    | 87                                  | %                   | 76-127       | 1                         |          | 05/25/22 10:21           | 17060-07-0 |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN7-M_5/23/2022        |         | Lab ID: 70215314013                                                                               |              | Collected: 05/23/22 11:50 |                | Received: 05/24/22 09:40 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 247000  | ug/L                                                                                              | 830          | 1                         |                | 05/27/22 12:16           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | 121J    | ug/L                                                                                              | 200          | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7440-43-9  |               |  |
| Calcium                        | 69200   | ug/L                                                                                              | 200          | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7440-47-3  |               |  |
| Iron                           | 711     | ug/L                                                                                              | 100          | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7439-92-1  |               |  |
| Magnesium                      | 17900   | ug/L                                                                                              | 200          | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7439-95-4  |               |  |
| Potassium                      | 12700   | ug/L                                                                                              | 5000         | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7440-09-7  |               |  |
| Sodium                         | 112000  | ug/L                                                                                              | 5000         | 1                         | 05/26/22 08:15 | 05/27/22 12:16           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 10:56           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 75-71-8    |               |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 75-34-3    | M1            |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | 1.6     | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:39           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN7-M_5/23/2022        |         | Lab ID: 70215314013                                                       |              | Collected: 05/23/22 11:50 |          | Received: 05/24/22 09:40 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:39           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 106     | %                                                                         | 80-110       | 1                         |          | 05/25/22 10:39           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 95      | %                                                                         | 87-120       | 1                         |          | 05/25/22 10:39           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 89      | %                                                                         | 76-127       | 1                         |          | 05/25/22 10:39           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 334     | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 15:59           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 334     | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 15:59           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 15:59           |            | M1            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 560     | mg/L                                                                      | 20.0         | 1                         |          | 05/27/22 12:56           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 117     | mg/L                                                                      | 10.0         | 5                         |          | 05/27/22 23:07           | 16887-00-6 | M1            |  |
| Sulfate                        | 55.4    | mg/L                                                                      | 5.0          | 1                         |          | 05/27/22 02:18           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 0.090   | mg/L                                                                      | 0.050        | 1                         |          | 05/25/22 17:35           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 0.12    | mg/L                                                                      | 0.050        | 1                         |          | 05/25/22 17:35           | 7727-37-9  | M1            |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | 0.030J  | mg/L                                                                      | 0.050        | 1                         |          | 05/25/22 04:27           | 14797-65-0 | M1            |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 4.4     | mg/L                                                                      | 0.10         | 1                         |          | 05/25/22 13:29           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN1-M_5/23/2022        |         | Lab ID: 70215314014                                                                               |              | Collected: 05/23/22 17:00 |                | Received: 05/24/22 09:40 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 96300   | ug/L                                                                                              | 830          | 1                         |                | 05/27/22 12:33           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | 152J    | ug/L                                                                                              | 200          | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7440-43-9  |               |  |
| Calcium                        | 24200   | ug/L                                                                                              | 200          | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7440-70-2  |               |  |
| Chromium                       | 151     | ug/L                                                                                              | 10.0         | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7440-47-3  |               |  |
| Iron                           | 1130    | ug/L                                                                                              | 100          | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7439-92-1  |               |  |
| Magnesium                      | 8710    | ug/L                                                                                              | 200          | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7439-95-4  |               |  |
| Potassium                      | 1860J   | ug/L                                                                                              | 5000         | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7440-09-7  |               |  |
| Sodium                         | 24000   | ug/L                                                                                              | 5000         | 1                         | 05/26/22 08:15 | 05/27/22 12:33           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 05/26/22 14:09 | 05/27/22 11:01           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 110-75-8   |               |  |
| Chloroform                     | 1.3     | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 75-71-8    |               |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/25/22 10:58           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN1-M_5/23/2022        |         | Lab ID: 70215314014                                                       |              | Collected: 05/23/22 17:00 |          | Received: 05/24/22 09:40 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/25/22 10:58           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 107     | %                                                                         | 80-110       | 1                         |          | 05/25/22 10:58           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 96      | %                                                                         | 87-120       | 1                         |          | 05/25/22 10:58           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 88      | %                                                                         | 76-127       | 1                         |          | 05/25/22 10:58           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 29.3    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 16:37           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 29.3    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 16:37           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 05/31/22 16:37           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 62.0    | mg/L                                                                      | 10.0         | 1                         |          | 05/27/22 13:05           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 54.5    | mg/L                                                                      | 2.0          | 1                         |          | 05/27/22 03:40           | 16887-00-6 |               |  |
| Sulfate                        | 30.3    | mg/L                                                                      | 5.0          | 1                         |          | 05/27/22 03:40           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 8.5     | mg/L                                                                      | 0.25         | 5                         |          | 05/25/22 17:38           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 8.5     | mg/L                                                                      | 0.25         | 5                         |          | 05/25/22 17:38           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/25/22 04:31           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 05/25/22 13:35           | 7664-41-7  |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: TRIP BLANK_5/25/2022 |         | Lab ID: 70215314015                                                 |              | Collected: 05/25/22 00:00 |          | Received: 05/26/22 10:45 |            | Matrix: Water |  |
|------------------------------|---------|---------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                   | Results | Units                                                               | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics      |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Benzene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 71-43-2    |               |  |
| Bromodichloromethane         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-27-4    |               |  |
| Bromoform                    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-25-2    |               |  |
| Bromomethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 74-83-9    |               |  |
| Carbon tetrachloride         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 56-23-5    |               |  |
| Chlorobenzene                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 108-90-7   |               |  |
| Chloroethane                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether     | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 110-75-8   |               |  |
| Chloroform                   | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 67-66-3    |               |  |
| Chloromethane                | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 74-87-3    |               |  |
| Dibromochloromethane         | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 106-46-7   |               |  |
| Dichlorodifluoromethane      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-34-3    |               |  |
| 1,2-Dichloroethane           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 107-06-2   |               |  |
| 1,1-Dichloroethene           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene     | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 156-60-5   |               |  |
| 1,2-Dichloropropane          | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 10061-02-6 |               |  |
| Ethylbenzene                 | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 100-41-4   |               |  |
| Methylene Chloride           | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane    | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 79-34-5    |               |  |
| Tetrachloroethene            | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 127-18-4   |               |  |
| Toluene                      | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane        | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane        | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 79-00-5    |               |  |
| Trichloroethene              | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 79-01-6    |               |  |
| Trichlorofluoromethane       | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-69-4    |               |  |
| Vinyl chloride               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 75-01-4    |               |  |
| Xylene (Total)               | <1.0    | ug/L                                                                | 1.0          | 1                         |          | 05/27/22 17:43           | 1330-20-7  |               |  |
| Surrogates                   |         |                                                                     |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)     | 107     | %                                                                   | 80-110       | 1                         |          | 05/27/22 17:43           | 460-00-4   |               |  |
| Toluene-d8 (S)               | 97      | %                                                                   | 87-120       | 1                         |          | 05/27/22 17:43           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)    | 88      | %                                                                   | 76-127       | 1                         |          | 05/27/22 17:43           | 17060-07-0 |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: FIELD BLANK_5/25/2023  |         | Lab ID: 70215314016                                                                               |              | Collected: 05/25/22 15:00 |                | Received: 05/26/22 10:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | <830    | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 16:08           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7440-43-9  |               |  |
| Calcium                        | <200    | ug/L                                                                                              | 200          | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7440-70-2  |               |  |
| Chromium                       | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7440-47-3  |               |  |
| Iron                           | <100    | ug/L                                                                                              | 100          | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7439-92-1  |               |  |
| Magnesium                      | <200    | ug/L                                                                                              | 200          | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7439-95-4  |               |  |
| Potassium                      | <5000   | ug/L                                                                                              | 5000         | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7440-09-7  |               |  |
| Sodium                         | <5000   | ug/L                                                                                              | 5000         | 1                         | 05/27/22 10:00 | 05/31/22 16:08           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 06/03/22 10:45 | 06/07/22 11:03           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:01           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: FIELD BLANK_5/25/2023  |         | Lab ID: 70215314016                                                       |              | Collected: 05/25/22 15:00 |          | Received: 05/26/22 10:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:01           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 105     | %                                                                         | 80-110       | 1                         |          | 05/27/22 18:01           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 96      | %                                                                         | 87-120       | 1                         |          | 05/27/22 18:01           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 89      | %                                                                         | 76-127       | 1                         |          | 05/27/22 18:01           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:41           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:41           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:41           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | <10.0   | mg/L                                                                      | 10.0         | 1                         |          | 06/01/22 13:12           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 0.025J  | mg/L                                                                      | 2.0          | 1                         |          | 05/29/22 18:35           | 16887-00-6 | B             |  |
| Sulfate                        | <5.0    | mg/L                                                                      | 5.0          | 1                         |          | 05/29/22 18:35           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 12:55           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 12:55           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 02:40           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 05/27/22 16:19           | 7664-41-7  |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| <b>Sample: BLIND</b>                 |                 | <b>Lab ID: 70215314017</b>                                                                        | Collected: 05/25/22 00:00 | Received: 05/26/22 10:45 | Matrix: Water  |                |            |      |
|--------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| <b>DUPLICATE_5/25/2024</b>           |                 |                                                                                                   |                           |                          |                |                |            |      |
| Parameters                           | Results         | Units                                                                                             | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>2340B Hardness, Total (Calc.)</b> |                 | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |                           |                          |                |                |            |      |
| Tot Hardness asCaCO3 (SM 2340B)      | <b>68400</b>    | ug/L                                                                                              | 830                       | 1                        |                | 05/31/22 16:10 |            |      |
| <b>6010 MET ICP</b>                  |                 | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |                           |                          |                |                |            |      |
| Aluminum                             | <b>&lt;200</b>  | ug/L                                                                                              | 200                       | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7429-90-5  |      |
| Arsenic                              | <b>&lt;10.0</b> | ug/L                                                                                              | 10.0                      | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7440-38-2  |      |
| Cadmium                              | <b>&lt;2.5</b>  | ug/L                                                                                              | 2.5                       | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7440-43-9  |      |
| Calcium                              | <b>17100</b>    | ug/L                                                                                              | 200                       | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7440-70-2  |      |
| Chromium                             | <b>1.2J</b>     | ug/L                                                                                              | 10.0                      | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7440-47-3  |      |
| Iron                                 | <b>&lt;100</b>  | ug/L                                                                                              | 100                       | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7439-89-6  |      |
| Lead                                 | <b>&lt;5.0</b>  | ug/L                                                                                              | 5.0                       | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7439-92-1  |      |
| Magnesium                            | <b>6240</b>     | ug/L                                                                                              | 200                       | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7439-95-4  |      |
| Potassium                            | <b>1440J</b>    | ug/L                                                                                              | 5000                      | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7440-09-7  |      |
| Sodium                               | <b>17400</b>    | ug/L                                                                                              | 5000                      | 1                        | 05/27/22 10:00 | 05/31/22 16:10 | 7440-23-5  |      |
| <b>7470 Mercury</b>                  |                 | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |                           |                          |                |                |            |      |
| Mercury                              | <b>&lt;0.20</b> | ug/L                                                                                              | 0.20                      | 1                        | 06/03/22 10:45 | 06/07/22 11:04 | 7439-97-6  |      |
| <b>624.1 Volatile Organics</b>       |                 | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |                           |                          |                |                |            |      |
| Benzene                              | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 71-43-2    |      |
| Bromodichloromethane                 | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 75-27-4    |      |
| Bromoform                            | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 75-25-2    |      |
| Bromomethane                         | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 74-83-9    |      |
| Carbon tetrachloride                 | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 56-23-5    |      |
| Chlorobenzene                        | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 108-90-7   |      |
| Chloroethane                         | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 75-00-3    |      |
| 2-Chloroethylvinyl ether             | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 110-75-8   |      |
| Chloroform                           | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 67-66-3    |      |
| Chloromethane                        | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 74-87-3    |      |
| Dibromochloromethane                 | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 124-48-1   |      |
| 1,2-Dichlorobenzene                  | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 95-50-1    |      |
| 1,3-Dichlorobenzene                  | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 541-73-1   |      |
| 1,4-Dichlorobenzene                  | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 106-46-7   |      |
| Dichlorodifluoromethane              | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 75-71-8    | v3   |
| 1,1-Dichloroethane                   | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 75-34-3    |      |
| 1,2-Dichloroethane                   | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 107-06-2   |      |
| 1,1-Dichloroethene                   | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 75-35-4    |      |
| cis-1,2-Dichloroethene               | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 156-59-2   |      |
| trans-1,2-Dichloroethene             | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 156-60-5   |      |
| 1,2-Dichloropropane                  | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 78-87-5    |      |
| cis-1,3-Dichloropropene              | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 10061-01-5 |      |
| trans-1,3-Dichloropropene            | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 10061-02-6 |      |
| Ethylbenzene                         | <b>&lt;1.0</b>  | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 18:19 | 100-41-4   |      |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: BLIND<br>DUPLICATE_5/25/2024 |         | Lab ID: 70215314017                                                       |              | Collected: 05/25/22 00:00 |          | Received: 05/26/22 10:45 |            | Matrix: Water |  |
|--------------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                           | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics              |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride                   | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane            | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 79-34-5    |               |  |
| Tetrachloroethene                    | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 127-18-4   |               |  |
| Toluene                              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 79-00-5    |               |  |
| Trichloroethene                      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 79-01-6    |               |  |
| Trichlorofluoromethane               | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 75-69-4    |               |  |
| Vinyl chloride                       | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 75-01-4    |               |  |
| Xylene (Total)                       | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:19           | 1330-20-7  |               |  |
| Surrogates                           |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)             | 104     | %                                                                         | 80-110       | 1                         |          | 05/27/22 18:19           | 460-00-4   |               |  |
| Toluene-d8 (S)                       | 96      | %                                                                         | 87-120       | 1                         |          | 05/27/22 18:19           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)            | 89      | %                                                                         | 76-127       | 1                         |          | 05/27/22 18:19           | 17060-07-0 |               |  |
| 2320B Alkalinity                     |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3           | 15.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:46           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3)       | 15.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:46           |            |               |  |
| Alkalinity,Carbonate (CaCO3)         | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:46           |            | L2            |  |
| 2540C Total Dissolved Solids         |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids               | 172     | mg/L                                                                      | 10.0         | 1                         |          | 06/01/22 13:20           |            |               |  |
| 300.0 IC Anions 28 Days              |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                             | 31.6    | mg/L                                                                      | 2.0          | 1                         |          | 05/29/22 18:49           | 16887-00-6 |               |  |
| Sulfate                              | 26.8    | mg/L                                                                      | 5.0          | 1                         |          | 05/29/22 18:49           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.        |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                         | 6.9     | mg/L                                                                      | 0.25         | 5                         |          | 05/27/22 12:56           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)               | 6.9     | mg/L                                                                      | 0.25         | 5                         |          | 05/27/22 12:56           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2                  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                         | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 02:37           | 14797-65-0 | H1            |  |
| 4500 Ammonia Water                   |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia                    | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 05/27/22 16:20           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN 10-M_5/25/2025      |         | Lab ID: 70215314018                                                                               |              | Collected: 05/25/22 14:45 |                | Received: 05/26/22 10:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 69000   | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 16:13           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Aluminum                       | <200    | ug/L                                                                                              | 200          | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7429-90-5  |               |  |
| Arsenic                        | <10.0   | ug/L                                                                                              | 10.0         | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7440-38-2  |               |  |
| Cadmium                        | <2.5    | ug/L                                                                                              | 2.5          | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7440-43-9  |               |  |
| Calcium                        | 17200   | ug/L                                                                                              | 200          | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7440-70-2  |               |  |
| Chromium                       | 1.3J    | ug/L                                                                                              | 10.0         | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7440-47-3  |               |  |
| Iron                           | <100    | ug/L                                                                                              | 100          | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7439-89-6  |               |  |
| Lead                           | <5.0    | ug/L                                                                                              | 5.0          | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7439-92-1  |               |  |
| Magnesium                      | 6330    | ug/L                                                                                              | 200          | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7439-95-4  |               |  |
| Potassium                      | 1420J   | ug/L                                                                                              | 5000         | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7440-09-7  |               |  |
| Sodium                         | 17600   | ug/L                                                                                              | 5000         | 1                         | 05/27/22 10:00 | 05/31/22 16:13           | 7440-23-5  |               |  |
| 7470 Mercury                   |         | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Mercury                        | <0.20   | ug/L                                                                                              | 0.20         | 1                         | 06/03/22 10:45 | 06/07/22 11:05           | 7439-97-6  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 18:38           | 100-41-4   |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Sample: EN 10-M_5/25/2025      |         | Lab ID: 70215314018                                                       |              | Collected: 05/25/22 14:45 |          | Received: 05/26/22 10:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                      | 1.0          | 1                         |          | 05/27/22 18:38           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 105     | %                                                                         | 80-110       | 1                         |          | 05/27/22 18:38           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 95      | %                                                                         | 87-120       | 1                         |          | 05/27/22 18:38           | 2037-26-5  |               |  |
| 1,2-Dichloroethane-d4 (S)      | 92      | %                                                                         | 76-127       | 1                         |          | 05/27/22 18:38           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 14.1    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:51           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 14.1    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:51           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 09:51           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 157     | mg/L                                                                      | 10.0         | 1                         |          | 06/01/22 13:21           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 31.7    | mg/L                                                                      | 2.0          | 1                         |          | 05/29/22 19:03           | 16887-00-6 |               |  |
| Sulfate                        | 26.9    | mg/L                                                                      | 5.0          | 1                         |          | 05/29/22 19:03           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 4.5     | mg/L                                                                      | 0.25         | 5                         |          | 05/27/22 13:34           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 4.5     | mg/L                                                                      | 0.25         | 5                         |          | 05/27/22 13:34           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 02:39           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 05/27/22 16:24           | 7664-41-7  |               |  |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                         |                                                                                                                                  |                       |                                     |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|
| QC Batch:               | 258378                                                                                                                           | Analysis Method:      | EPA 7470A                           |
| QC Batch Method:        | EPA 7470A                                                                                                                        | Analysis Description: | 7470 Mercury                        |
|                         |                                                                                                                                  | Laboratory:           | Pace Analytical Services - Melville |
| Associated Lab Samples: | 70215314002, 70215314003, 70215314004, 70215314005, 70215314008, 70215314009, 70215314010, 70215314011, 70215314013, 70215314014 |                       |                                     |

|                         |                                                                                                                                  |         |       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------|-------|
| METHOD BLANK:           | 1304457                                                                                                                          | Matrix: | Water |
| Associated Lab Samples: | 70215314002, 70215314003, 70215314004, 70215314005, 70215314008, 70215314009, 70215314010, 70215314011, 70215314013, 70215314014 |         |       |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury   | ug/L  | <0.20        | 0.20            | 05/27/22 10:35 |            |

| LABORATORY CONTROL SAMPLE: | 1304458 |             |            |           |              |            |
|----------------------------|---------|-------------|------------|-----------|--------------|------------|
| Parameter                  | Units   | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Mercury                    | ug/L    | 1           | 0.90       | 90        | 80-120       |            |

| MATRIX SPIKE SAMPLE: | 1304508 |                    |             |           |          |              |            |
|----------------------|---------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter            | Units   | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Mercury              | ug/L    | <0.20              | 1           | 1.2       | 109      | 75-125       |            |

| SAMPLE DUPLICATE: 1304509 |       |                       |               |     |            |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| Parameter                 | Units | 70215314013<br>Result | Dup<br>Result | RPD | Qualifiers |
| Mercury                   | ug/L  | <0.20                 | <0.20         |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 259248

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215314016, 70215314017, 70215314018

METHOD BLANK: 1308538

Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury   | ug/L  | <0.20        | 0.20            | 06/07/22 11:00 |            |

LABORATORY CONTROL SAMPLE: 1308539

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 1           | 0.96       | 96        | 80-120       |            |

MATRIX SPIKE SAMPLE: 1310970

| Parameter | Units | 70216390002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | ug/L  | <0.20              | 1           | 1.1       | 108      | 75-125       |            |

SAMPLE DUPLICATE: 1310971

| Parameter | Units | 70216390002 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Mercury   | ug/L  | <0.20              | <0.20      |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                         |                                                                                                        |                       |                                     |
|-------------------------|--------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|
| QC Batch:               | 257759                                                                                                 | Analysis Method:      | EPA 6010C                           |
| QC Batch Method:        | EPA 3005A                                                                                              | Analysis Description: | 6010 MET Water                      |
|                         |                                                                                                        | Laboratory:           | Pace Analytical Services - Melville |
| Associated Lab Samples: | 70215314002, 70215314003, 70215314004, 70215314005, 70215314008, 70215314009, 70215314010, 70215314011 |                       |                                     |

METHOD BLANK: 1301540

Matrix: Water

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005, 70215314008, 70215314009, 70215314010, 70215314011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Aluminum  | ug/L  | <200         | 200             | 05/23/22 21:55 |            |
| Arsenic   | ug/L  | <10.0        | 10.0            | 05/23/22 21:55 |            |
| Cadmium   | ug/L  | <2.5         | 2.5             | 05/23/22 21:55 |            |
| Calcium   | ug/L  | <200         | 200             | 05/23/22 21:55 |            |
| Chromium  | ug/L  | <10.0        | 10.0            | 05/23/22 21:55 |            |
| Iron      | ug/L  | <100         | 100             | 05/23/22 21:55 |            |
| Lead      | ug/L  | <5.0         | 5.0             | 05/23/22 21:55 |            |
| Magnesium | ug/L  | <200         | 200             | 05/23/22 21:55 |            |
| Potassium | ug/L  | <5000        | 5000            | 05/23/22 21:55 |            |
| Sodium    | ug/L  | <5000        | 5000            | 05/23/22 21:55 |            |

LABORATORY CONTROL SAMPLE: 1301541

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/L  | 25000       | 25100      | 100       | 80-120       |            |
| Arsenic   | ug/L  | 500         | 499        | 100       | 80-120       |            |
| Cadmium   | ug/L  | 500         | 524        | 105       | 80-120       |            |
| Calcium   | ug/L  | 25000       | 25700      | 103       | 80-120       |            |
| Chromium  | ug/L  | 500         | 491        | 98        | 80-120       |            |
| Iron      | ug/L  | 12500       | 13000      | 104       | 80-120       |            |
| Lead      | ug/L  | 500         | 527        | 105       | 80-120       |            |
| Magnesium | ug/L  | 25000       | 24900      | 100       | 80-120       |            |
| Potassium | ug/L  | 25000       | 25600      | 102       | 80-120       |            |
| Sodium    | ug/L  | 25000       | 25500      | 102       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301542 1301543

| Parameter | 70215314002 |        | MS          | MSD         | MSD    |        | MS    | MSD   | % Rec  |        | RPD | Qual |
|-----------|-------------|--------|-------------|-------------|--------|--------|-------|-------|--------|--------|-----|------|
|           | Units       | Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | Limits |     |      |
| Aluminum  | ug/L        | 83.4J  | 12500       | 12500       | 12600  | 12700  | 100   | 101   | 75-125 | 75-125 | 1   |      |
| Arsenic   | ug/L        | <10.0  | 500         | 500         | 494    | 500    | 98    | 99    | 75-125 | 75-125 | 1   |      |
| Cadmium   | ug/L        | <2.5   | 500         | 500         | 517    | 521    | 103   | 104   | 75-125 | 75-125 | 1   |      |
| Calcium   | ug/L        | 21400  | 12500       | 12500       | 33900  | 34400  | 100   | 104   | 75-125 | 75-125 | 1   |      |
| Chromium  | ug/L        | <10.0  | 500         | 500         | 490    | 494    | 98    | 99    | 75-125 | 75-125 | 1   |      |
| Iron      | ug/L        | 7430   | 5000        | 5000        | 12400  | 12600  | 100   | 103   | 75-125 | 75-125 | 1   |      |
| Lead      | ug/L        | <5.0   | 500         | 500         | 520    | 525    | 104   | 105   | 75-125 | 75-125 | 1   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301542 1301543 |       |                       |                |                |              |               |             |              |                 |     |      |
|--------------------------------------------------------|-------|-----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|------|
| Parameter                                              | Units | 70215314002<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Qual |
|                                                        |       |                       | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     |      |
| Magnesium                                              | ug/L  | 13100                 | 12500          | 12500          | 25200        | 25500         | 97          | 99           | 75-125          | 1   |      |
| Potassium                                              | ug/L  | 2420J                 | 12500          | 12500          | 15600        | 15800         | 105         | 107          | 75-125          | 1   |      |
| Sodium                                                 | ug/L  | 10600                 | 12500          | 12500          | 24200        | 24700         | 109         | 113          | 75-125          | 2   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 258278

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215314013, 70215314014

METHOD BLANK: 1304182

Matrix: Water

Associated Lab Samples: 70215314013, 70215314014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Aluminum  | ug/L  | <200         | 200             | 05/27/22 12:07 |            |
| Arsenic   | ug/L  | <10.0        | 10.0            | 05/27/22 12:07 |            |
| Cadmium   | ug/L  | <2.5         | 2.5             | 05/27/22 12:07 |            |
| Calcium   | ug/L  | <200         | 200             | 05/27/22 12:07 |            |
| Chromium  | ug/L  | <10.0        | 10.0            | 05/27/22 12:07 |            |
| Iron      | ug/L  | <100         | 100             | 05/27/22 12:07 |            |
| Lead      | ug/L  | <5.0         | 5.0             | 05/27/22 12:07 |            |
| Magnesium | ug/L  | <200         | 200             | 05/27/22 12:07 |            |
| Potassium | ug/L  | <5000        | 5000            | 05/27/22 12:07 |            |
| Sodium    | ug/L  | <5000        | 5000            | 05/27/22 12:07 |            |

LABORATORY CONTROL SAMPLE: 1304183

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/L  | 25000       | 24200      | 97        | 80-120       |            |
| Arsenic   | ug/L  | 500         | 468        | 94        | 80-120       |            |
| Cadmium   | ug/L  | 500         | 475        | 95        | 80-120       |            |
| Calcium   | ug/L  | 25000       | 24100      | 96        | 80-120       |            |
| Chromium  | ug/L  | 500         | 486        | 97        | 80-120       |            |
| Iron      | ug/L  | 12500       | 12100      | 97        | 80-120       |            |
| Lead      | ug/L  | 500         | 482        | 96        | 80-120       |            |
| Magnesium | ug/L  | 25000       | 23700      | 95        | 80-120       |            |
| Potassium | ug/L  | 25000       | 24200      | 97        | 80-120       |            |
| Sodium    | ug/L  | 25000       | 24500      | 98        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1304184 1304185

| Parameter | Units | 70215314013 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Aluminum  | ug/L  | 121J               | 12500          | 12500           | 12500     | 12200      | 99       | 97        | 75-125       | 2   |      |
| Arsenic   | ug/L  | <10.0              | 500            | 500             | 478       | 468        | 95       | 93        | 75-125       | 2   |      |
| Cadmium   | ug/L  | <2.5               | 500            | 500             | 473       | 463        | 95       | 93        | 75-125       | 2   |      |
| Calcium   | ug/L  | 69200              | 12500          | 12500           | 81100     | 78800      | 95       | 77        | 75-125       | 3   |      |
| Chromium  | ug/L  | <10.0              | 500            | 500             | 482       | 470        | 96       | 94        | 75-125       | 3   |      |
| Iron      | ug/L  | 711                | 5000           | 5000            | 5590      | 5420       | 98       | 94        | 75-125       | 3   |      |
| Lead      | ug/L  | <5.0               | 500            | 500             | 479       | 467        | 96       | 93        | 75-125       | 3   |      |
| Magnesium | ug/L  | 17900              | 12500          | 12500           | 29700     | 28900      | 94       | 88        | 75-125       | 3   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1304184 1304185 |       |                       |                      |                       |              |               |             |              |                 |     |      |
|--------------------------------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|-----|------|
| Parameter                                              | Units | 70215314013<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Qual |
| Potassium                                              | ug/L  | 12700                 | 12500                | 12500                 | 26400        | 25800         | 110         | 105          | 75-125          | 2   |      |
| Sodium                                                 | ug/L  | 112000                | 12500                | 12500                 | 126000       | 123000        | 112         | 88           | 75-125          | 2   |      |

| MATRIX SPIKE SAMPLE: 1304187 |       |                       |                |              |             |                 |            |
|------------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| Parameter                    | Units | 70215880003<br>Result | Spike<br>Conc. | MS<br>Result | MS<br>% Rec | % Rec<br>Limits | Qualifiers |
| Aluminum                     | ug/L  | <200                  | 12500          | 12500        | 100         | 75-125          |            |
| Arsenic                      | ug/L  | <10.0                 | 500            | 475          | 95          | 75-125          |            |
| Cadmium                      | ug/L  | 0.48J                 | 500            | 483          | 97          | 75-125          |            |
| Calcium                      | ug/L  | 20300                 | 12500          | 33500        | 106         | 75-125          |            |
| Chromium                     | ug/L  | <10.0                 | 500            | 487          | 97          | 75-125          |            |
| Iron                         | ug/L  | 71.0J                 | 5000           | 4970         | 98          | 75-125          |            |
| Lead                         | ug/L  | <5.0                  | 500            | 488          | 98          | 75-125          |            |
| Magnesium                    | ug/L  | 6520                  | 12500          | 18700        | 97          | 75-125          |            |
| Potassium                    | ug/L  | 19100                 | 12500          | 33600        | 116         | 75-125          |            |
| Sodium                       | ug/L  | 106000                | 12500          | 124000       | 144         | 75-125          | M1         |

SAMPLE DUPLICATE: 1304186

| Parameter | Units | 70215880003<br>Result | Dup<br>Result | RPD | Qualifiers |
|-----------|-------|-----------------------|---------------|-----|------------|
| Aluminum  | ug/L  | <200                  | <200          |     |            |
| Arsenic   | ug/L  | <10.0                 | <10.0         |     |            |
| Cadmium   | ug/L  | 0.48J                 | 0.41J         |     |            |
| Calcium   | ug/L  | 20300                 | 21000         | 3   |            |
| Chromium  | ug/L  | <10.0                 | <10.0         |     |            |
| Iron      | ug/L  | 71.0J                 | 42.7J         |     |            |
| Lead      | ug/L  | <5.0                  | <5.0          |     |            |
| Magnesium | ug/L  | 6520                  | 6750          | 3   |            |
| Potassium | ug/L  | 19100                 | 19800         | 4   |            |
| Sodium    | ug/L  | 106000                | 110000        | 4   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258494    | Analysis Method:      | EPA 6010C                           |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6010 MET Water                      |
|                  |           | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70215314016, 70215314017, 70215314018

METHOD BLANK: 1304995 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Aluminum  | ug/L  | <200         | 200             | 05/31/22 15:37 |            |
| Arsenic   | ug/L  | <10.0        | 10.0            | 05/31/22 15:37 |            |
| Cadmium   | ug/L  | <2.5         | 2.5             | 05/31/22 15:37 |            |
| Calcium   | ug/L  | <200         | 200             | 05/31/22 15:37 |            |
| Chromium  | ug/L  | <10.0        | 10.0            | 05/31/22 15:37 |            |
| Iron      | ug/L  | <100         | 100             | 05/31/22 15:37 |            |
| Lead      | ug/L  | <5.0         | 5.0             | 05/31/22 15:37 |            |
| Magnesium | ug/L  | <200         | 200             | 05/31/22 15:37 |            |
| Potassium | ug/L  | <5000        | 5000            | 05/31/22 15:37 |            |
| Sodium    | ug/L  | <5000        | 5000            | 05/31/22 15:37 |            |

LABORATORY CONTROL SAMPLE: 1304996

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/L  | 25000       | 25200      | 101       | 80-120       |            |
| Arsenic   | ug/L  | 500         | 491        | 98        | 80-120       |            |
| Cadmium   | ug/L  | 500         | 499        | 100       | 80-120       |            |
| Calcium   | ug/L  | 25000       | 25400      | 102       | 80-120       |            |
| Chromium  | ug/L  | 500         | 491        | 98        | 80-120       |            |
| Iron      | ug/L  | 12500       | 12700      | 102       | 80-120       |            |
| Lead      | ug/L  | 500         | 505        | 101       | 80-120       |            |
| Magnesium | ug/L  | 25000       | 24900      | 100       | 80-120       |            |
| Potassium | ug/L  | 25000       | 25200      | 101       | 80-120       |            |
| Sodium    | ug/L  | 25000       | 23800      | 95        | 80-120       |            |

MATRIX SPIKE SAMPLE: 1304998

| Parameter | Units | 70216073003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Aluminum  | ug/L  | <200               | 12500       | 13000     | 104      | 75-125       |            |
| Arsenic   | ug/L  | <10.0              | 500         | 509       | 102      | 75-125       |            |
| Cadmium   | ug/L  | <2.5               | 500         | 509       | 102      | 75-125       |            |
| Calcium   | ug/L  | 31600              | 12500       | 43800     | 98       | 75-125       |            |
| Chromium  | ug/L  | <10.0              | 500         | 506       | 101      | 75-125       |            |
| Iron      | ug/L  | 160                | 5000        | 5400      | 105      | 75-125       |            |
| Lead      | ug/L  | <5.0               | 500         | 513       | 103      | 75-125       |            |
| Magnesium | ug/L  | 13900              | 12500       | 26100     | 98       | 75-125       |            |
| Potassium | ug/L  | 5030               | 12500       | 19600     | 117      | 75-125       |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| MATRIX SPIKE SAMPLE: 1304998 |       | 70216073003 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Sodium                       | ug/L  | 95500       | 12500 | 107000 | 92    | 75-125 |            |

SAMPLE DUPLICATE: 1304997

| Parameter | Units | 70216073003<br>Result | Dup<br>Result | RPD | Qualifiers |
|-----------|-------|-----------------------|---------------|-----|------------|
| Aluminum  | ug/L  | <200                  | <200          |     |            |
| Arsenic   | ug/L  | <10.0                 | <10.0         |     |            |
| Cadmium   | ug/L  | <2.5                  | <2.5          |     |            |
| Calcium   | ug/L  | 31600                 | 31900         | 1   |            |
| Chromium  | ug/L  | <10.0                 | <10.0         |     |            |
| Iron      | ug/L  | 160                   | 161           | 0   |            |
| Lead      | ug/L  | <5.0                  | <5.0          |     |            |
| Magnesium | ug/L  | 13900                 | 14000         | 1   |            |
| Potassium | ug/L  | 5030                  | 5090          | 1   |            |
| Sodium    | ug/L  | 95500                 | 96600         | 1   |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 257599

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215314001, 70215314002, 70215314003, 70215314004, 70215314005, 70215314006

METHOD BLANK: 1300556

Matrix: Water

Associated Lab Samples: 70215314001, 70215314002, 70215314003, 70215314004, 70215314005, 70215314006

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,1,2-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,1-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,1-Dichloroethene        | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,2-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,2-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,2-Dichloropropane       | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,3-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,4-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 2-Chloroethylvinyl ether  | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Benzene                   | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Bromodichloromethane      | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Bromoform                 | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Bromomethane              | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Carbon tetrachloride      | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Chlorobenzene             | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Chloroethane              | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Chloroform                | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Chloromethane             | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| cis-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| cis-1,3-Dichloropropene   | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Dibromochloromethane      | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Dichlorodifluoromethane   | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 | v3         |
| Ethylbenzene              | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Methylene Chloride        | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Tetrachloroethene         | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Toluene                   | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| trans-1,3-Dichloropropene | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Trichloroethene           | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Trichlorofluoromethane    | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Vinyl chloride            | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| Xylene (Total)            | ug/L  | <1.0         | 1.0             | 05/20/22 14:51 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 105          | 76-127          | 05/20/22 14:51 |            |
| 4-Bromofluorobenzene (S)  | %     | 95           | 80-110          | 05/20/22 14:51 |            |
| Toluene-d8 (S)            | %     | 96           | 87-120          | 05/20/22 14:51 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

LABORATORY CONTROL SAMPLE: 1300557

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 19.6       | 98        | 70-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 19.5       | 98        | 60-140       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 20.0       | 100       | 70-130       |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 24.6       | 123       | 70-130       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 20.5       | 103       | 70-130       |            |
| 1,2-Dichlorobenzene       | ug/L  | 20          | 18.4       | 92        | 65-135       |            |
| 1,2-Dichloroethane        | ug/L  | 20          | 21.2       | 106       | 70-130       |            |
| 1,2-Dichloropropane       | ug/L  | 20          | 24.3       | 122       | 35-165       |            |
| 1,3-Dichlorobenzene       | ug/L  | 20          | 19.2       | 96        | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 20          | 18.8       | 94        | 65-135       |            |
| 2-Chloroethylvinyl ether  | ug/L  | 20          | 9.8        | 49        | 10-225       |            |
| Benzene                   | ug/L  | 20          | 22.6       | 113       | 65-135       |            |
| Bromodichloromethane      | ug/L  | 20          | 21.1       | 106       | 65-135       |            |
| Bromoform                 | ug/L  | 20          | 18.1       | 91        | 70-130       |            |
| Bromomethane              | ug/L  | 20          | 21.5       | 108       | 15-185       |            |
| Carbon tetrachloride      | ug/L  | 20          | 20.1       | 100       | 70-130       |            |
| Chlorobenzene             | ug/L  | 20          | 18.7       | 94        | 65-135       |            |
| Chloroethane              | ug/L  | 20          | 23.5       | 117       | 40-160       |            |
| Chloroform                | ug/L  | 20          | 21.0       | 105       | 70-135       |            |
| Chloromethane             | ug/L  | 20          | 24.6       | 123       | 10-205       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 21.2       | 106       | 77-121       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 22.0       | 110       | 25-175       |            |
| Dibromochloromethane      | ug/L  | 20          | 17.9       | 90        | 70-135       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 13.0       | 65        | 10-131 v3    |            |
| Ethylbenzene              | ug/L  | 20          | 18.1       | 90        | 60-140       |            |
| Methylene Chloride        | ug/L  | 20          | 20.4       | 102       | 60-140       |            |
| Tetrachloroethene         | ug/L  | 20          | 17.0       | 85        | 65-135       |            |
| Toluene                   | ug/L  | 20          | 21.6       | 108       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 21.2       | 106       | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 21.6       | 108       | 50-150       |            |
| Trichloroethene           | ug/L  | 20          | 21.0       | 105       | 65-135       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 18.5       | 93        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 21.9       | 110       | 5-195        |            |
| Xylene (Total)            | ug/L  | 60          | 55.2       | 92        | 77-121       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 105       | 76-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 98        | 80-110       |            |
| Toluene-d8 (S)            | %     |             |            | 94        | 87-120       |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 257810

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215314007, 70215314008, 70215314009, 70215314010, 70215314011

METHOD BLANK: 1301753

Matrix: Water

Associated Lab Samples: 70215314007, 70215314008, 70215314009, 70215314010, 70215314011

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,1,2-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,1-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,1-Dichloroethene        | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,2-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,2-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,2-Dichloropropane       | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,3-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,4-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 2-Chloroethylvinyl ether  | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Benzene                   | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Bromodichloromethane      | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Bromoform                 | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Bromomethane              | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Carbon tetrachloride      | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Chlorobenzene             | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Chloroethane              | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Chloroform                | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Chloromethane             | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| cis-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| cis-1,3-Dichloropropene   | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Dibromochloromethane      | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Dichlorodifluoromethane   | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 | v3         |
| Ethylbenzene              | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Methylene Chloride        | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Tetrachloroethene         | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Toluene                   | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| trans-1,3-Dichloropropene | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Trichloroethene           | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Trichlorofluoromethane    | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Vinyl chloride            | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| Xylene (Total)            | ug/L  | <1.0         | 1.0             | 05/23/22 14:18 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 90           | 76-127          | 05/23/22 14:18 |            |
| 4-Bromofluorobenzene (S)  | %     | 107          | 80-110          | 05/23/22 14:18 |            |
| Toluene-d8 (S)            | %     | 99           | 87-120          | 05/23/22 14:18 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

LABORATORY CONTROL SAMPLE: 1301754

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 18.8       | 94        | 70-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 20.6       | 103       | 60-140       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 20.4       | 102       | 70-130       |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 21.6       | 108       | 70-130       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 19.2       | 96        | 70-130       |            |
| 1,2-Dichlorobenzene       | ug/L  | 20          | 19.5       | 98        | 65-135       |            |
| 1,2-Dichloroethane        | ug/L  | 20          | 18.9       | 95        | 70-130       |            |
| 1,2-Dichloropropane       | ug/L  | 20          | 23.1       | 115       | 35-165       |            |
| 1,3-Dichlorobenzene       | ug/L  | 20          | 19.5       | 98        | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 20          | 19.3       | 97        | 65-135       |            |
| 2-Chloroethylvinyl ether  | ug/L  | 20          | 7.5        | 37        | 10-225       |            |
| Benzene                   | ug/L  | 20          | 21.4       | 107       | 65-135       |            |
| Bromodichloromethane      | ug/L  | 20          | 20.6       | 103       | 65-135       |            |
| Bromoform                 | ug/L  | 20          | 20.1       | 100       | 70-130       |            |
| Bromomethane              | ug/L  | 20          | 17.0       | 85        | 15-185       |            |
| Carbon tetrachloride      | ug/L  | 20          | 19.3       | 96        | 70-130       |            |
| Chlorobenzene             | ug/L  | 20          | 20.8       | 104       | 65-135       |            |
| Chloroethane              | ug/L  | 20          | 19.0       | 95        | 40-160       |            |
| Chloroform                | ug/L  | 20          | 19.6       | 98        | 70-135       |            |
| Chloromethane             | ug/L  | 20          | 16.4       | 82        | 10-205       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 20.4       | 102       | 77-121       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 22.4       | 112       | 25-175       |            |
| Dibromochloromethane      | ug/L  | 20          | 20.5       | 103       | 70-135       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 6.6        | 33        | 10-131 v3    |            |
| Ethylbenzene              | ug/L  | 20          | 19.5       | 97        | 60-140       |            |
| Methylene Chloride        | ug/L  | 20          | 18.1       | 91        | 60-140       |            |
| Tetrachloroethene         | ug/L  | 20          | 18.5       | 93        | 65-135       |            |
| Toluene                   | ug/L  | 20          | 21.5       | 108       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 20.2       | 101       | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 21.8       | 109       | 50-150       |            |
| Trichloroethene           | ug/L  | 20          | 21.3       | 107       | 65-135       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 16.4       | 82        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 16.5       | 83        | 5-195        |            |
| Xylene (Total)            | ug/L  | 60          | 60.2       | 100       | 77-121       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 89        | 76-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 106       | 80-110       |            |
| Toluene-d8 (S)            | %     |             |            | 96        | 87-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1303076 1303077

| Parameter                 | Units | 70215546001 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              | 23.5      | 22.8       | 117      | 114       | 70-130       | 3   |      |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0               | 20             | 20              | 22.0      | 22.5       | 110      | 112       | 60-140       | 2   |      |
| 1,1,2-Trichloroethane     | ug/L  | <1.0               | 20             | 20              | 21.5      | 21.4       | 107      | 107       | 70-130       | 0   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1303076 1303077 |       |             |       |             |             |        |        |       |       |        |       |
|--------------------------------------------------------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------|-------|
| Parameter                                              | Units | 70215546001 |       | MS          | MSD         | MS     |        | MSD   | % Rec |        | Qual  |
|                                                        |       | Result      | Conc. | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits |       |
| 1,1-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20          | 20          | 25.0   | 24.4   | 125   | 122   | 70-130 | 2     |
| 1,1-Dichloroethene                                     | ug/L  | <1.0        | 20    | 20          | 20          | 20.6   | 19.1   | 103   | 95    | 70-130 | 8     |
| 1,2-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20          | 20          | 21.7   | 22.1   | 108   | 110   | 65-135 | 2     |
| 1,2-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20          | 20          | 21.0   | 20.5   | 105   | 102   | 70-130 | 3     |
| 1,2-Dichloropropane                                    | ug/L  | <1.0        | 20    | 20          | 20          | 26.3   | 26.1   | 131   | 131   | 35-165 | 1     |
| 1,3-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20          | 20          | 22.1   | 22.5   | 110   | 112   | 70-130 | 2     |
| 1,4-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20          | 20          | 21.8   | 22.0   | 109   | 110   | 65-135 | 1     |
| 2-Chloroethylvinyl ether                               | ug/L  | <1.0        | 20    | 20          | 20          | <1.0   | <1.0   | 0     | 0     | 10-225 | M1    |
| Benzene                                                | ug/L  | <1.0        | 20    | 20          | 20          | 25.7   | 25.3   | 128   | 126   | 65-135 | 1     |
| Bromodichloromethane                                   | ug/L  | <1.0        | 20    | 20          | 20          | 22.3   | 22.6   | 112   | 113   | 65-135 | 1     |
| Bromoform                                              | ug/L  | 6.5         | 20    | 20          | 20          | 30.5   | 31.4   | 120   | 125   | 70-130 | 3     |
| Bromomethane                                           | ug/L  | <1.0        | 20    | 20          | 20          | 18.2   | 17.4   | 91    | 87    | 15-185 | 4     |
| Carbon tetrachloride                                   | ug/L  | <1.0        | 20    | 20          | 20          | 24.5   | 24.6   | 122   | 123   | 70-130 | 1     |
| Chlorobenzene                                          | ug/L  | <1.0        | 20    | 20          | 20          | 23.5   | 23.5   | 117   | 118   | 65-135 | 0     |
| Chloroethane                                           | ug/L  | <1.0        | 20    | 20          | 20          | 27.4   | 26.5   | 137   | 132   | 40-160 | 4     |
| Chloroform                                             | ug/L  | <1.0        | 20    | 20          | 20          | 23.0   | 22.3   | 115   | 111   | 70-135 | 3     |
| Chloromethane                                          | ug/L  | <1.0        | 20    | 20          | 20          | 25.0   | 24.3   | 125   | 121   | 10-205 | 3     |
| cis-1,2-Dichloroethene                                 | ug/L  | <1.0        | 20    | 20          | 20          | 25.1   | 23.8   | 126   | 119   | 66-136 | 5     |
| cis-1,3-Dichloropropene                                | ug/L  | <1.0        | 20    | 20          | 20          | 20.3   | 19.8   | 102   | 99    | 25-175 | 3     |
| Dibromochloromethane                                   | ug/L  | <1.0        | 20    | 20          | 20          | 21.9   | 21.6   | 109   | 108   | 70-135 | 1     |
| Dichlorodifluoromethane                                | ug/L  | <1.0        | 20    | 20          | 20          | 8.1    | 7.8    | 40    | 39    | 10-146 | 4 v3  |
| Ethylbenzene                                           | ug/L  | <1.0        | 20    | 20          | 20          | 17.3   | 16.9   | 86    | 84    | 60-140 | 2     |
| Methylene Chloride                                     | ug/L  | <1.0        | 20    | 20          | 20          | 20.5   | 18.0   | 103   | 90    | 60-140 | 13    |
| Tetrachloroethene                                      | ug/L  | <1.0        | 20    | 20          | 20          | 21.4   | 21.5   | 107   | 108   | 65-135 | 1     |
| Toluene                                                | ug/L  | <1.0        | 20    | 20          | 20          | 17.8   | 16.9   | 89    | 84    | 70-130 | 5     |
| trans-1,2-Dichloroethene                               | ug/L  | <1.0        | 20    | 20          | 20          | 24.4   | 20.9   | 122   | 105   | 70-130 | 15    |
| trans-1,3-Dichloropropene                              | ug/L  | <1.0        | 20    | 20          | 20          | 19.7   | 19.5   | 98    | 98    | 50-150 | 1     |
| Trichloroethene                                        | ug/L  | <1.0        | 20    | 20          | 20          | 25.4   | 24.9   | 127   | 124   | 65-135 | 2     |
| Trichlorofluoromethane                                 | ug/L  | <1.0        | 20    | 20          | 20          | 20.8   | 19.7   | 104   | 99    | 50-150 | 5     |
| Vinyl chloride                                         | ug/L  | <1.0        | 20    | 20          | 20          | <1.0   | <1.0   | 0     | 0     | 5-195  | M1    |
| Xylene (Total)                                         | ug/L  | <1.0        | 60    | 60          | 60          | 4.3    | 3.5    | 7     | 6     | 72-141 | 22 MS |
| 1,2-Dichloroethane-d4 (S)                              | %     |             |       |             |             |        |        | 86    | 86    | 76-127 |       |
| 4-Bromofluorobenzene (S)                               | %     |             |       |             |             |        |        | 108   | 108   | 80-110 |       |
| Toluene-d8 (S)                                         | %     |             |       |             |             |        |        | 97    | 98    | 87-120 |       |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258091    | Analysis Method:      | EPA 624.1                           |
| QC Batch Method: | EPA 624.1 | Analysis Description: | 624.1 MSV                           |
|                  |           | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70215314012, 70215314013, 70215314014

METHOD BLANK: 1303396 Matrix: Water

Associated Lab Samples: 70215314012, 70215314013, 70215314014

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,1,2-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,1-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,1-Dichloroethene        | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,2-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,2-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,2-Dichloropropane       | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,3-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,4-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 2-Chloroethylvinyl ether  | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Benzene                   | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Bromodichloromethane      | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Bromoform                 | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Bromomethane              | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Carbon tetrachloride      | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Chlorobenzene             | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Chloroethane              | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Chloroform                | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Chloromethane             | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| cis-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| cis-1,3-Dichloropropene   | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Dibromochloromethane      | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Dichlorodifluoromethane   | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Ethylbenzene              | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Methylene Chloride        | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Tetrachloroethene         | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Toluene                   | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| trans-1,3-Dichloropropene | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Trichloroethene           | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Trichlorofluoromethane    | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Vinyl chloride            | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| Xylene (Total)            | ug/L  | <1.0         | 1.0             | 05/25/22 08:46 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 90           | 76-127          | 05/25/22 08:46 |            |
| 4-Bromofluorobenzene (S)  | %     | 105          | 80-110          | 05/25/22 08:46 |            |
| Toluene-d8 (S)            | %     | 97           | 87-120          | 05/25/22 08:46 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

LABORATORY CONTROL SAMPLE: 1303397

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 19.9       | 100       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 20.4       | 102       | 60-140       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 20.6       | 103       | 70-130       |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 22.8       | 114       | 70-130       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 21.0       | 105       | 70-130       |            |
| 1,2-Dichlorobenzene       | ug/L  | 20          | 19.4       | 97        | 65-135       |            |
| 1,2-Dichloroethane        | ug/L  | 20          | 19.5       | 98        | 70-130       |            |
| 1,2-Dichloropropane       | ug/L  | 20          | 24.3       | 121       | 35-165       |            |
| 1,3-Dichlorobenzene       | ug/L  | 20          | 19.5       | 98        | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 20          | 20.1       | 100       | 65-135       |            |
| 2-Chloroethylvinyl ether  | ug/L  | 20          | 9.2        | 46        | 10-225       |            |
| Benzene                   | ug/L  | 20          | 23.4       | 117       | 65-135       |            |
| Bromodichloromethane      | ug/L  | 20          | 21.1       | 105       | 65-135       |            |
| Bromoform                 | ug/L  | 20          | 19.6       | 98        | 70-130       |            |
| Bromomethane              | ug/L  | 20          | 21.5       | 107       | 15-185       |            |
| Carbon tetrachloride      | ug/L  | 20          | 21.5       | 107       | 70-130       |            |
| Chlorobenzene             | ug/L  | 20          | 21.7       | 108       | 65-135       |            |
| Chloroethane              | ug/L  | 20          | 23.4       | 117       | 40-160       |            |
| Chloroform                | ug/L  | 20          | 20.5       | 102       | 70-135       |            |
| Chloromethane             | ug/L  | 20          | 27.2       | 136       | 10-205       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 21.4       | 107       | 77-121       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 23.0       | 115       | 25-175       |            |
| Dibromochloromethane      | ug/L  | 20          | 20.2       | 101       | 70-135       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 17.7       | 88        | 10-131       |            |
| Ethylbenzene              | ug/L  | 20          | 20.5       | 103       | 60-140       |            |
| Methylene Chloride        | ug/L  | 20          | 19.1       | 96        | 60-140       |            |
| Tetrachloroethene         | ug/L  | 20          | 19.0       | 95        | 65-135       |            |
| Toluene                   | ug/L  | 20          | 22.6       | 113       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 21.6       | 108       | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 22.0       | 110       | 50-150       |            |
| Trichloroethene           | ug/L  | 20          | 22.6       | 113       | 65-135       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 18.8       | 94        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 23.2       | 116       | 5-195        |            |
| Xylene (Total)            | ug/L  | 60          | 62.2       | 104       | 77-121       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 88        | 76-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 106       | 80-110       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 87-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1305494 1305495

| Parameter                 | Units | 70215314013 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              | 23.4      | 22.5       | 117      | 113       | 70-130       | 4   |      |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0               | 20             | 20              | 20.9      | 20.4       | 105      | 102       | 60-140       | 3   |      |
| 1,1,2-Trichloroethane     | ug/L  | <1.0               | 20             | 20              | 21.6      | 21.4       | 108      | 107       | 70-130       | 1   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1305494 1305495 |       |             |       |       |       |        |        |       |       |        |      |
|--------------------------------------------------------|-------|-------------|-------|-------|-------|--------|--------|-------|-------|--------|------|
| Parameter                                              | Units | 70215314013 |       | MS    | MSD   | MS     |        | MSD   | % Rec |        | Qual |
|                                                        |       | Result      | Conc. | Spike | Spike | Result | Result | % Rec | % Rec | Limits |      |
| 1,1-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20    | 20    | 26.5   | 25.6   | 133   | 128   | 70-130 | 3 M1 |
| 1,1-Dichloroethene                                     | ug/L  | <1.0        | 20    | 20    | 20    | 25.2   | 24.6   | 126   | 123   | 70-130 | 2    |
| 1,2-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 21.0   | 20.3   | 105   | 102   | 65-135 | 4    |
| 1,2-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20    | 20    | 21.3   | 20.7   | 107   | 103   | 70-130 | 3    |
| 1,2-Dichloropropane                                    | ug/L  | <1.0        | 20    | 20    | 20    | 25.9   | 26.2   | 129   | 131   | 35-165 | 1    |
| 1,3-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 21.1   | 20.9   | 106   | 105   | 70-130 | 1    |
| 1,4-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 21.1   | 21.0   | 106   | 105   | 65-135 | 0    |
| 2-Chloroethylvinyl ether                               | ug/L  | <1.0        | 20    | 20    | 20    | 9.2    | 9.1    | 46    | 45    | 10-225 | 1    |
| Benzene                                                | ug/L  | <1.0        | 20    | 20    | 20    | 25.6   | 25.9   | 128   | 129   | 65-135 | 1    |
| Bromodichloromethane                                   | ug/L  | <1.0        | 20    | 20    | 20    | 22.6   | 22.7   | 113   | 113   | 65-135 | 0    |
| Bromoform                                              | ug/L  | <1.0        | 20    | 20    | 20    | 20.0   | 20.2   | 100   | 101   | 70-130 | 1    |
| Bromomethane                                           | ug/L  | <1.0        | 20    | 20    | 20    | 22.7   | 23.4   | 113   | 117   | 15-185 | 3    |
| Carbon tetrachloride                                   | ug/L  | <1.0        | 20    | 20    | 20    | 24.7   | 24.9   | 124   | 125   | 70-130 | 1    |
| Chlorobenzene                                          | ug/L  | <1.0        | 20    | 20    | 20    | 23.6   | 23.7   | 118   | 118   | 65-135 | 0    |
| Chloroethane                                           | ug/L  | <1.0        | 20    | 20    | 20    | 26.3   | 26.0   | 132   | 130   | 40-160 | 1    |
| Chloroform                                             | ug/L  | <1.0        | 20    | 20    | 20    | 22.7   | 22.4   | 114   | 112   | 70-135 | 1    |
| Chloromethane                                          | ug/L  | <1.0        | 20    | 20    | 20    | 30.1   | 30.2   | 151   | 151   | 10-205 | 0    |
| cis-1,2-Dichloroethene                                 | ug/L  | 1.6         | 20    | 20    | 20    | 25.3   | 25.1   | 118   | 117   | 66-136 | 1    |
| cis-1,3-Dichloropropene                                | ug/L  | <1.0        | 20    | 20    | 20    | 24.3   | 24.7   | 121   | 124   | 25-175 | 2    |
| Dibromochloromethane                                   | ug/L  | <1.0        | 20    | 20    | 20    | 21.0   | 21.4   | 105   | 107   | 70-135 | 2    |
| Dichlorodifluoromethane                                | ug/L  | <1.0        | 20    | 20    | 20    | 20.8   | 20.4   | 104   | 102   | 10-146 | 2    |
| Ethylbenzene                                           | ug/L  | <1.0        | 20    | 20    | 20    | 22.3   | 22.5   | 111   | 112   | 60-140 | 1    |
| Methylene Chloride                                     | ug/L  | <1.0        | 20    | 20    | 20    | 21.0   | 20.6   | 105   | 103   | 60-140 | 2    |
| Tetrachloroethene                                      | ug/L  | <1.0        | 20    | 20    | 20    | 21.7   | 21.9   | 108   | 110   | 65-135 | 1    |
| Toluene                                                | ug/L  | <1.0        | 20    | 20    | 20    | 24.6   | 25.1   | 123   | 126   | 70-130 | 2    |
| trans-1,2-Dichloroethene                               | ug/L  | <1.0        | 20    | 20    | 20    | 24.8   | 24.6   | 124   | 123   | 70-130 | 1    |
| trans-1,3-Dichloropropene                              | ug/L  | <1.0        | 20    | 20    | 20    | 22.5   | 23.8   | 113   | 119   | 50-150 | 5    |
| Trichloroethene                                        | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 25.1   | 127   | 125   | 65-135 | 1    |
| Trichlorofluoromethane                                 | ug/L  | <1.0        | 20    | 20    | 20    | 23.2   | 22.8   | 116   | 114   | 50-150 | 2    |
| Vinyl chloride                                         | ug/L  | <1.0        | 20    | 20    | 20    | 28.4   | 27.7   | 142   | 138   | 5-195  | 2    |
| Xylene (Total)                                         | ug/L  | <1.0        | 60    | 60    | 60    | 67.6   | 68.3   | 113   | 114   | 72-141 | 1    |
| 1,2-Dichloroethane-d4 (S)                              | %     |             |       |       |       |        |        | 88    | 87    | 76-127 |      |
| 4-Bromofluorobenzene (S)                               | %     |             |       |       |       |        |        | 107   | 107   | 80-110 |      |
| Toluene-d8 (S)                                         | %     |             |       |       |       |        |        | 96    | 96    | 87-120 |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 258591

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215314015, 70215314016, 70215314017, 70215314018

METHOD BLANK: 1305338

Matrix: Water

Associated Lab Samples: 70215314015, 70215314016, 70215314017, 70215314018

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1,2-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1-Dichloroethene        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichloropropane       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,3-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,4-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 2-Chloroethylvinyl ether  | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Benzene                   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Bromodichloromethane      | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Bromoform                 | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Bromomethane              | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Carbon tetrachloride      | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chlorobenzene             | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chloroethane              | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chloroform                | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chloromethane             | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| cis-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| cis-1,3-Dichloropropene   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Dibromochloromethane      | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Dichlorodifluoromethane   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 | v3         |
| Ethylbenzene              | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Methylene Chloride        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Tetrachloroethene         | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Toluene                   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| trans-1,3-Dichloropropene | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Trichloroethene           | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Trichlorofluoromethane    | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Vinyl chloride            | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Xylene (Total)            | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 89           | 76-127          | 05/27/22 16:13 |            |
| 4-Bromofluorobenzene (S)  | %     | 106          | 80-110          | 05/27/22 16:13 |            |
| Toluene-d8 (S)            | %     | 97           | 87-120          | 05/27/22 16:13 |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

LABORATORY CONTROL SAMPLE: 1305339

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 18.1       | 90        | 70-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 16.6       | 83        | 60-140       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 18.1       | 90        | 70-130       |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 20.2       | 101       | 70-130       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 18.4       | 92        | 70-130       |            |
| 1,2-Dichlorobenzene       | ug/L  | 20          | 16.9       | 85        | 65-135       |            |
| 1,2-Dichloroethane        | ug/L  | 20          | 17.2       | 86        | 70-130       |            |
| 1,2-Dichloropropane       | ug/L  | 20          | 21.0       | 105       | 35-165       |            |
| 1,3-Dichlorobenzene       | ug/L  | 20          | 17.3       | 86        | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 20          | 16.9       | 85        | 65-135       |            |
| 2-Chloroethylvinyl ether  | ug/L  | 20          | 7.6        | 38        | 10-225       |            |
| Benzene                   | ug/L  | 20          | 20.2       | 101       | 65-135       |            |
| Bromodichloromethane      | ug/L  | 20          | 18.6       | 93        | 65-135       |            |
| Bromoform                 | ug/L  | 20          | 17.8       | 89        | 70-130       |            |
| Bromomethane              | ug/L  | 20          | 16.8       | 84        | 15-185       |            |
| Carbon tetrachloride      | ug/L  | 20          | 19.6       | 98        | 70-130       |            |
| Chlorobenzene             | ug/L  | 20          | 18.6       | 93        | 65-135       |            |
| Chloroethane              | ug/L  | 20          | 19.1       | 96        | 40-160       |            |
| Chloroform                | ug/L  | 20          | 18.7       | 93        | 70-135       |            |
| Chloromethane             | ug/L  | 20          | 19.8       | 99        | 10-205       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 19.2       | 96        | 77-121       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 20.0       | 100       | 25-175       |            |
| Dibromochloromethane      | ug/L  | 20          | 18.0       | 90        | 70-135       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 12.1       | 60        | 10-131 v3    |            |
| Ethylbenzene              | ug/L  | 20          | 17.8       | 89        | 60-140       |            |
| Methylene Chloride        | ug/L  | 20          | 16.6       | 83        | 60-140       |            |
| Tetrachloroethene         | ug/L  | 20          | 17.5       | 87        | 65-135       |            |
| Toluene                   | ug/L  | 20          | 20.0       | 100       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 19.3       | 97        | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 19.5       | 98        | 50-150       |            |
| Trichloroethene           | ug/L  | 20          | 20.0       | 100       | 65-135       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 16.7       | 84        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 18.3       | 91        | 5-195        |            |
| Xylene (Total)            | ug/L  | 60          | 55.2       | 92        | 77-121       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 90        | 76-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 109       | 80-110       |            |
| Toluene-d8 (S)            | %     |             |            | 97        | 87-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1305612 1305613

| Parameter                 | Units | 70216204001 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              | 24.0      | 22.6       | 120      | 113       | 70-130       | 6   |      |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0               | 20             | 20              | 20.9      | 20.9       | 104      | 105       | 60-140       | 0   |      |
| 1,1,2-Trichloroethane     | ug/L  | <1.0               | 20             | 20              | 21.1      | 21.9       | 106      | 110       | 70-130       | 4   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1305612 1305613 |       |             |       |       |       |        |        |       |       |        |      |
|--------------------------------------------------------|-------|-------------|-------|-------|-------|--------|--------|-------|-------|--------|------|
| Parameter                                              | Units | 70216204001 |       | MS    | MSD   | MS     | MSD    | MS    | MSD   | % Rec  | RPD  |
|                                                        |       | Result      | Conc. | Spike | Spike |        |        |       |       |        |      |
|                                                        |       |             |       | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | Qual |
| 1,1-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20    | 20    | 26.1   | 25.1   | 131   | 126   | 70-130 | 4 M1 |
| 1,1-Dichloroethene                                     | ug/L  | <1.0        | 20    | 20    | 20    | 26.4   | 24.2   | 132   | 121   | 70-130 | 9 M1 |
| 1,2-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 20.5   | 20.7   | 102   | 103   | 65-135 | 1    |
| 1,2-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20    | 20    | 21.2   | 20.3   | 106   | 102   | 70-130 | 4    |
| 1,2-Dichloropropane                                    | ug/L  | <1.0        | 20    | 20    | 20    | 25.9   | 25.3   | 129   | 127   | 35-165 | 2    |
| 1,3-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 21.2   | 21.0   | 106   | 105   | 70-130 | 1    |
| 1,4-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 20.6   | 20.9   | 103   | 104   | 65-135 | 1    |
| 2-Chloroethylvinyl ether                               | ug/L  | <1.0        | 20    | 20    | 20    | <1.0   | <1.0   | 0     | 0     | 10-225 |      |
| Benzene                                                | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 25.2   | 126   | 126   | 65-135 | 0    |
| Bromodichloromethane                                   | ug/L  | <1.0        | 20    | 20    | 20    | 22.8   | 22.0   | 114   | 110   | 65-135 | 3    |
| Bromoform                                              | ug/L  | <1.0        | 20    | 20    | 20    | 19.9   | 20.4   | 99    | 102   | 70-130 | 3    |
| Bromomethane                                           | ug/L  | <1.0        | 20    | 20    | 20    | 23.5   | 22.9   | 118   | 115   | 15-185 | 3    |
| Carbon tetrachloride                                   | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 24.9   | 127   | 124   | 70-130 | 2    |
| Chlorobenzene                                          | ug/L  | <1.0        | 20    | 20    | 20    | 22.9   | 22.8   | 115   | 114   | 65-135 | 1    |
| Chloroethane                                           | ug/L  | <1.0        | 20    | 20    | 20    | 27.5   | 26.2   | 137   | 131   | 40-160 | 5    |
| Chloroform                                             | ug/L  | <1.0        | 20    | 20    | 20    | 23.8   | 22.4   | 119   | 112   | 70-135 | 6    |
| Chloromethane                                          | ug/L  | <1.0        | 20    | 20    | 20    | 31.7   | 31.0   | 158   | 155   | 10-205 | 2    |
| cis-1,2-Dichloroethene                                 | ug/L  | <1.0        | 20    | 20    | 20    | 24.1   | 23.2   | 120   | 116   | 66-136 | 4    |
| cis-1,3-Dichloropropene                                | ug/L  | <1.0        | 20    | 20    | 20    | 23.6   | 23.5   | 118   | 117   | 25-175 | 1    |
| Dibromochloromethane                                   | ug/L  | <1.0        | 20    | 20    | 20    | 21.2   | 21.1   | 106   | 106   | 70-135 | 0    |
| Dichlorodifluoromethane                                | ug/L  | <1.0        | 20    | 20    | 20    | 23.9   | 22.0   | 119   | 110   | 10-146 | 8 v3 |
| Ethylbenzene                                           | ug/L  | <1.0        | 20    | 20    | 20    | 22.1   | 21.8   | 111   | 109   | 60-140 | 2    |
| Methylene Chloride                                     | ug/L  | <1.0        | 20    | 20    | 20    | 21.0   | 20.2   | 105   | 101   | 60-140 | 3    |
| Tetrachloroethene                                      | ug/L  | <1.0        | 20    | 20    | 20    | 21.7   | 21.6   | 109   | 108   | 65-135 | 1    |
| Toluene                                                | ug/L  | <1.0        | 20    | 20    | 20    | 24.8   | 24.5   | 124   | 122   | 70-130 | 1    |
| trans-1,2-Dichloroethene                               | ug/L  | <1.0        | 20    | 20    | 20    | 25.9   | 24.3   | 130   | 121   | 70-130 | 6    |
| trans-1,3-Dichloropropene                              | ug/L  | <1.0        | 20    | 20    | 20    | 22.4   | 22.6   | 112   | 113   | 50-150 | 1    |
| Trichloroethene                                        | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 24.7   | 127   | 123   | 65-135 | 2    |
| Trichlorofluoromethane                                 | ug/L  | <1.0        | 20    | 20    | 20    | 24.3   | 22.8   | 122   | 114   | 50-150 | 7    |
| Vinyl chloride                                         | ug/L  | <1.0        | 20    | 20    | 20    | 29.7   | 27.5   | 149   | 138   | 5-195  | 8    |
| Xylene (Total)                                         | ug/L  | <1.0        | 60    | 60    | 60    | 66.3   | 66.3   | 111   | 110   | 72-141 | 0    |
| 1,2-Dichloroethane-d4 (S)                              | %     |             |       |       |       |        |        | 87    | 90    | 76-127 |      |
| 4-Bromofluorobenzene (S)                               | %     |             |       |       |       |        |        | 108   | 109   | 80-110 |      |
| Toluene-d8 (S)                                         | %     |             |       |       |       |        |        | 96    | 97    | 87-120 |      |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |            |                       |                                     |
|------------------|------------|-----------------------|-------------------------------------|
| QC Batch:        | 258297     | Analysis Method:      | SM22 2320B                          |
| QC Batch Method: | SM22 2320B | Analysis Description: | 2320B Alkalinity                    |
|                  |            | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

METHOD BLANK: 1304229 Matrix: Water  
Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

| Parameter                                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0         | 1.0             | 05/26/22 09:22 |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0         | 1.0             | 05/26/22 09:22 |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0         | 1.0             | 05/26/22 09:22 |            |

LABORATORY CONTROL SAMPLE: 1304230

| Parameter                              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 25          | 23.8       | 95        | 85-115       |            |

MATRIX SPIKE SAMPLE: 1304232

| Parameter                              | Units | 70215392001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 14.4               | 50          | 64.1      | 99       | 75-125       |            |

SAMPLE DUPLICATE: 1304231

| Parameter                                   | Units | 70215392001 Result | Dup Result | RPD | Qualifiers |
|---------------------------------------------|-------|--------------------|------------|-----|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 14.4               | 14.3       | 0   |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 14.4               | 14.3       | 0   |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | <1.0       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |            |                       |                                     |
|------------------|------------|-----------------------|-------------------------------------|
| QC Batch:        | 258691     | Analysis Method:      | SM22 2320B                          |
| QC Batch Method: | SM22 2320B | Analysis Description: | 2320B Alkalinity                    |
|                  |            | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

METHOD BLANK: 1305920 Matrix: Water

Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

| Parameter                                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0         | 1.0             | 05/31/22 08:58 |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0         | 1.0             | 05/31/22 08:58 |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0         | 1.0             | 05/31/22 08:58 |            |

LABORATORY CONTROL SAMPLE: 1305921

| Parameter                                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 25          | 21.9       | 87        | 85-115       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  |             | 3.4        |           |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | 25          | 18.5       | 74        | 85-115       | L2         |

MATRIX SPIKE SAMPLE: 1305923

| Parameter                                   | Units | 70215886002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0               | 50          | <1.0      | 0        | 75-125       | M1         |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0               |             | <1.0      |          |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | 50          | <1.0      | 0        | 75-125       | M0         |

SAMPLE DUPLICATE: 1305922

| Parameter                                   | Units | 70215886002 Result | Dup Result | RPD | Qualifiers |
|---------------------------------------------|-------|--------------------|------------|-----|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0               | <1.0       |     |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0               | <1.0       |     |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | <1.0       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER  
Pace Project No.: 70215314

QC Batch: 258734 Analysis Method: SM22 2320B  
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215314013, 70215314014

METHOD BLANK: 1306046 Matrix: Water

Associated Lab Samples: 70215314013, 70215314014

| Parameter                                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0         | 1.0             | 05/31/22 13:23 |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0         | 1.0             | 05/31/22 13:23 |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0         | 1.0             | 05/31/22 13:23 |            |

LABORATORY CONTROL SAMPLE: 1306047

| Parameter                                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 25          | 24.1       | 96        | 85-115       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  |             | 2.4        |           |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | 25          | 21.7       | 87        | 85-115       |            |

MATRIX SPIKE SAMPLE: 1306049

| Parameter                                   | Units | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 334                | 50          | 377       | 86       | 75-125       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 334                |             | 377       |          |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | 50          | <1.0      | 0        | 75-125       | M1         |

SAMPLE DUPLICATE: 1306048

| Parameter                                   | Units | 70215314013 Result | Dup Result | RPD | Qualifiers |
|---------------------------------------------|-------|--------------------|------------|-----|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 334                | 334        | 0   |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 334                | 334        | 0   |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | <1.0       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                         |                                       |                       |                                     |
|-------------------------|---------------------------------------|-----------------------|-------------------------------------|
| QC Batch:               | 259040                                | Analysis Method:      | SM22 2320B                          |
| QC Batch Method:        | SM22 2320B                            | Analysis Description: | 2320B Alkalinity                    |
|                         |                                       | Laboratory:           | Pace Analytical Services - Melville |
| Associated Lab Samples: | 70215314016, 70215314017, 70215314018 |                       |                                     |

METHOD BLANK: 1307567 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter                                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0         | 1.0             | 06/02/22 09:25 |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0         | 1.0             | 06/02/22 09:25 |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0         | 1.0             | 06/02/22 09:25 |            |

LABORATORY CONTROL SAMPLE: 1307568

| Parameter                                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 25          | 22.5       | 90        | 85-115       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  |             | 3.8        |           |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | 25          | 18.7       | 75        | 85-115       | L2         |

MATRIX SPIKE SAMPLE: 1307570

| Parameter                                   | Units | 70215880003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 260                | 50          | 308       | 95       | 75-125       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 260                |             | 308       |          |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | 50          | <1.0      | 0        | 75-125       | M0         |

SAMPLE DUPLICATE: 1307569

| Parameter                                   | Units | 70215880003 Result | Dup Result | RPD | Qualifiers |
|---------------------------------------------|-------|--------------------|------------|-----|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 260                | 261        | 0   |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 260                | 261        | 0   |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | <1.0       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |            |                       |                                     |
|------------------|------------|-----------------------|-------------------------------------|
| QC Batch:        | 257899     | Analysis Method:      | SM22 2540C                          |
| QC Batch Method: | SM22 2540C | Analysis Description: | 2540C Total Dissolved Solids        |
|                  |            | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

METHOD BLANK: 1302394 Matrix: Water  
Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Dissolved Solids | mg/L  | <10.0        | 10.0            | 05/24/22 12:58 |            |

LABORATORY CONTROL SAMPLE: 1302395

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

MATRIX SPIKE SAMPLE: 1302397

| Parameter              | Units | 70215251001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 58.0               | 300         | 358       | 100      | 75-125       |            |

MATRIX SPIKE SAMPLE: 1302399

| Parameter              | Units | 70215345001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 93.0               | 300         | 411       | 106      | 75-125       |            |

SAMPLE DUPLICATE: 1302396

| Parameter              | Units | 70215251001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 58.0               | 60.0       | 3   |            |

SAMPLE DUPLICATE: 1302398

| Parameter              | Units | 70215345001 Result | Dup Result | RPD  | Qualifiers |
|------------------------|-------|--------------------|------------|------|------------|
| Total Dissolved Solids | mg/L  | 93.0               | 87.0       | 7 D6 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 258082 Analysis Method: SM22 2540C  
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

METHOD BLANK: 1303365 Matrix: Water  
Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Dissolved Solids | mg/L  | <10.0        | 10.0            | 05/25/22 12:06 |            |

LABORATORY CONTROL SAMPLE: 1303366

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 500         | 526        | 105       | 85-115       |            |

MATRIX SPIKE SAMPLE: 1303368

| Parameter              | Units | 70215557001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 306                | 300         | 584       | 93       | 75-125       |            |

MATRIX SPIKE SAMPLE: 1303370

| Parameter              | Units | 70215694001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 230                | 300         | 493       | 88       | 75-125       |            |

SAMPLE DUPLICATE: 1303367

| Parameter              | Units | 70215557001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 306                | 308        | 1   |            |

SAMPLE DUPLICATE: 1303369

| Parameter              | Units | 70215694001 Result | Dup Result | RPD  | Qualifiers |
|------------------------|-------|--------------------|------------|------|------------|
| Total Dissolved Solids | mg/L  | 230                | 210        | 9 D6 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER  
Pace Project No.: 70215314

QC Batch: 258481 Analysis Method: SM22 2540C  
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70215314013, 70215314014

METHOD BLANK: 1304952 Matrix: Water  
Associated Lab Samples: 70215314013, 70215314014

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Dissolved Solids | mg/L  | <10.0        | 10.0            | 05/27/22 12:54 |            |

LABORATORY CONTROL SAMPLE: 1304953

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 500         | 448        | 90        | 85-115       |            |

MATRIX SPIKE SAMPLE: 1304957

| Parameter              | Units | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 560                | 600         | 1120      | 93       | 75-125       |            |

MATRIX SPIKE SAMPLE: 1305153

| Parameter              | Units | 70215886002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 4740               | 1500        | 6340      | 106      | 75-125       |            |

SAMPLE DUPLICATE: 1304956

| Parameter              | Units | 70215314013 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 560                | 554        | 1   |            |

SAMPLE DUPLICATE: 1305152

| Parameter              | Units | 70215886002 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 4740               | 4980       | 5   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                         |                                       |                       |                                     |
|-------------------------|---------------------------------------|-----------------------|-------------------------------------|
| QC Batch:               | 258865                                | Analysis Method:      | SM22 2540C                          |
| QC Batch Method:        | SM22 2540C                            | Analysis Description: | 2540C Total Dissolved Solids        |
|                         |                                       | Laboratory:           | Pace Analytical Services - Melville |
| Associated Lab Samples: | 70215314016, 70215314017, 70215314018 |                       |                                     |

METHOD BLANK: 1306577 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Dissolved Solids | mg/L  | <10.0        | 10.0            | 06/01/22 12:59 |            |

LABORATORY CONTROL SAMPLE: 1306578

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 500         | 484        | 97        | 85-115       |            |

MATRIX SPIKE SAMPLE: 1306580

| Parameter              | Units | 70216076001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 4980               | 1500        | 6620      | 110      | 75-125       |            |

MATRIX SPIKE SAMPLE: 1306582

| Parameter              | Units | 70216142001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 39.0               | 300         | 353       | 105      | 75-125       |            |

SAMPLE DUPLICATE: 1306579

| Parameter              | Units | 70216076001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 4980               | 4800       | 4   |            |

SAMPLE DUPLICATE: 1306581

| Parameter              | Units | 70216142001 Result | Dup Result | RPD   | Qualifiers |
|------------------------|-------|--------------------|------------|-------|------------|
| Total Dissolved Solids | mg/L  | 39.0               | 46.0       | 16 D6 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 257782    | 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: 70215314002, 70215314003, 70215314004, 70215314005

METHOD BLANK: 1301641 Matrix: Water

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | 0.097J       | 2.0             | 05/23/22 22:27 |            |
| Sulfate   | mg/L  | 0.13J        | 5.0             | 05/23/22 22:27 |            |

LABORATORY CONTROL SAMPLE: 1301642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 10          | 10.5       | 105       | 90-110       |            |
| Sulfate   | mg/L  | 10          | 10.3       | 103       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301643

| Parameter | Units | 70214954001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 29.7               | 10          | 39.2      | 95       | 90-110       |            |
| Sulfate   | mg/L  | 20.0               | 10          | 29.6      | 96       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301645

| Parameter | Units | 70213980001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 54.1               | 10          | 63.1      | 90       | 90-110       |            |
| Sulfate   | mg/L  | 17.9               | 10          | 27.6      | 98       | 90-110       |            |

SAMPLE DUPLICATE: 1301644

| Parameter | Units | 70214954001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 29.7               | 29.6       | 0   |            |
| Sulfate   | mg/L  | 20.0               | 20.0       | 0   |            |

SAMPLE DUPLICATE: 1301646

| Parameter | Units | 70213980001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 54.1               | 54.2       | 0   |            |
| Sulfate   | mg/L  | 17.9               | 17.9       | 0   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 257935 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: 70215314008, 70215314009, 70215314010, 70215314011

METHOD BLANK: 1302464 Matrix: Water  
Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | 0.077J       | 2.0             | 05/24/22 16:48 |            |
| Sulfate   | mg/L  | 0.13J        | 5.0             | 05/24/22 16:48 |            |

LABORATORY CONTROL SAMPLE: 1302465

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 10          | 10.4       | 104       | 90-110       |            |
| Sulfate   | mg/L  | 10          | 10.3       | 103       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1302470

| Parameter | Units | 70215752001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 183                | 10          | 191       | 75       | 90-110       | M1         |
| Sulfate   | mg/L  | 24.0               | 10          | 33.5      | 95       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1302472

| Parameter | Units | 70215144001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 12.1               | 10          | 21.8      | 98       | 90-110       |            |
| Sulfate   | mg/L  | <5.0               | 10          | 12.1      | 97       | 90-110       |            |

SAMPLE DUPLICATE: 1302471

| Parameter | Units | 70215752001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 183                | 185        | 1   |            |
| Sulfate   | mg/L  | 24.0               | 24.0       | 0   |            |

SAMPLE DUPLICATE: 1302473

| Parameter | Units | 70215144001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 12.1               | 12.0       | 0   |            |
| Sulfate   | mg/L  | <5.0               | 2.3J       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258345    | 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: 70215314013, 70215314014

METHOD BLANK: 1304356 Matrix: Water

Associated Lab Samples: 70215314013, 70215314014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | 0.15J        | 2.0             | 05/27/22 01:51 |            |
| Sulfate   | mg/L  | 0.15J        | 5.0             | 05/27/22 01:51 |            |

LABORATORY CONTROL SAMPLE: 1304357

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 10          | 10.5       | 105       | 90-110       |            |
| Sulfate   | mg/L  | 10          | 9.2        | 92        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1304358

| Parameter | Units | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 117                | 10          | 119       | 21       | 90-110       | M1         |
| Sulfate   | mg/L  | 55.4               | 10          | 64.7      | 93       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1304360

| Parameter | Units | 70215727010 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 9.4                | 10          | 19.1      | 97       | 90-110       |            |
| Sulfate   | mg/L  | <5.0               | 10          | 12.8      | 90       | 90-110       |            |

SAMPLE DUPLICATE: 1304359

| Parameter | Units | 70215314013 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 117                | 117        | 0   |            |
| Sulfate   | mg/L  | 55.4               | 55.5       | 0   |            |

SAMPLE DUPLICATE: 1304361

| Parameter | Units | 70215727010 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 9.4                | 9.4        | 0   |            |
| Sulfate   | mg/L  | <5.0               | 3.8J       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258656    | 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: 70215314016, 70215314017, 70215314018

METHOD BLANK: 1305837 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | 0.088J       | 2.0             | 05/29/22 14:04 |            |
| Sulfate   | mg/L  | 0.14J        | 5.0             | 05/29/22 14:04 |            |

LABORATORY CONTROL SAMPLE: 1305838

| 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: 1305839

| Parameter | Units | 70216080001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 4.3                | 10          | 14.0      | 98       | 90-110       |            |
| Sulfate   | mg/L  | <5.0               | 10          | 13.6      | 100      | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305841

| Parameter | Units | 70215934001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 12.2               | 10          | 22.0      | 97       | 90-110       |            |
| Sulfate   | mg/L  | <5.0               | 10          | 10.1      | 92       | 90-110       |            |

SAMPLE DUPLICATE: 1305840

| Parameter | Units | 70216080001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 4.3                | 3.9        | 9   |            |
| Sulfate   | mg/L  | <5.0               | 0.12J      |     |            |

SAMPLE DUPLICATE: 1305842

| Parameter | Units | 70215934001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 12.2               | 12.2       | 0   |            |
| Sulfate   | mg/L  | <5.0               | 0.84J      |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 257504    | 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: 70215314002, 70215314003, 70215314004, 70215314005

METHOD BLANK: 1300172 Matrix: Water

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/19/22 23:32 |            |

LABORATORY CONTROL SAMPLE: 1300173

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 0.93       | 93        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1300174

| Parameter    | Units | 30489902001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | ND                 | 0.5         | 0.52      | 103      | 90-110       | H3         |

MATRIX SPIKE SAMPLE: 1300176

| Parameter    | Units | 30490031001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | ND                 | 0.5         | 0.50      | 100      | 90-110       |            |

SAMPLE DUPLICATE: 1300175

| Parameter    | Units | 30489902001 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | ND                 | <0.050     |     | H3         |

SAMPLE DUPLICATE: 1300177

| Parameter    | Units | 30490031001 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | ND                 | <0.050     |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 257649

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: 70215314008, 70215314009, 70215314010

METHOD BLANK: 1300996

Matrix: Water

Associated Lab Samples: 70215314008, 70215314009, 70215314010

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/21/22 00:00 |            |

LABORATORY CONTROL SAMPLE: 1300997

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 0.91       | 91        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1300998

| Parameter    | Units | 70215498006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | <0.050             | 0.5         | 0.47      | 94       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301000

| Parameter    | Units | 70215566001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | <0.050             | 0.5         | 0.51      | 103      | 90-110       |            |

SAMPLE DUPLICATE: 1300999

| Parameter    | Units | 70215498006 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | <0.050     |     |            |

SAMPLE DUPLICATE: 1301001

| Parameter    | Units | 70215566001 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | <0.050     |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 257650

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: 70215314011

METHOD BLANK: 1301002

Matrix: Water

Associated Lab Samples: 70215314011

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/21/22 00:38 |            |

LABORATORY CONTROL SAMPLE: 1301003

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 0.91       | 91        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301004

| Parameter    | Units | 70215557003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | <0.050             | 0.5         | 0.49      | 97       | 90-110       |            |

SAMPLE DUPLICATE: 1301005

| Parameter    | Units | 70215557003 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | <0.050     |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

QC Batch: 258065

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: 70215314013, 70215314014

METHOD BLANK: 1303306

Matrix: Water

Associated Lab Samples: 70215314013, 70215314014

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/25/22 04:25 |            |

LABORATORY CONTROL SAMPLE: 1303307

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 1.0        | 105       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1303308

| Parameter    | Units | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | 0.030J             | 0.5         | 0.58      | 111      | 90-110       | M1         |

SAMPLE DUPLICATE: 1303309

| Parameter    | Units | 70215314013 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | 0.030J             | 0.028J     |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                                                               |           |                       |                                     |
|---------------------------------------------------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:                                                     | 258442    | 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: 70215314016, 70215314017, 70215314018 |           |                       |                                     |

METHOD BLANK: 1304840 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/27/22 02:30 |            |

LABORATORY CONTROL SAMPLE: 1304841

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 1.0        | 103       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1304842

| Parameter    | Units | 70216080001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | <0.050             | 0.5         | 0.45      | 89       | 90-110       | H1,M1      |

MATRIX SPIKE SAMPLE: 1304844

| Parameter    | Units | 70216196001 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: 1304843

| Parameter    | Units | 70216080001 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | <0.050     |     | H1         |

SAMPLE DUPLICATE: 1304845

| Parameter    | Units | 70216196001 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | <0.050     |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 257604    | 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: 70215314002, 70215314003, 70215314004, 70215314005

METHOD BLANK: 1300583 Matrix: Water

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050       | 0.050           | 05/20/22 16:21 |            |

LABORATORY CONTROL SAMPLE: 1300584

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 1           | 0.92       | 92        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1300587

| Parameter              | Units | 70215363002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050             | 0.5         | 0.54      | 106      | 90-110       |            |

MATRIX SPIKE SAMPLE: 1300608

| Parameter              | Units | 70215315001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.22               | 0.5         | 0.70      | 96       | 90-110       |            |

SAMPLE DUPLICATE: 1300588

| Parameter              | Units | 70215363002 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050             | <0.050     |     |            |

SAMPLE DUPLICATE: 1300609

| Parameter              | Units | 70215315001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.22               | 0.22       | 2   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 257673    | 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: 70215314008, 70215314009, 70215314010, 70215314011

METHOD BLANK: 1301304 Matrix: Water

Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050       | 0.050           | 05/21/22 18:46 |            |

LABORATORY CONTROL SAMPLE: 1301305

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 1           | 1.1        | 107       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301306

| Parameter              | Units | 70215367001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.79               | 0.5         | 1.3       | 107      | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301308

| Parameter              | Units | 70215525005 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.19               | 0.5         | 0.74      | 109      | 90-110       |            |

SAMPLE DUPLICATE: 1301307

| Parameter              | Units | 70215367001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.79               | 0.81       | 2   |            |

SAMPLE DUPLICATE: 1301309

| Parameter              | Units | 70215525005 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.19               | 0.19       | 1   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER  
Pace Project No.: 70215314

QC Batch: 258111 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: 70215314013, 70215314014

METHOD BLANK: 1303449 Matrix: Water

Associated Lab Samples: 70215314013, 70215314014

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050       | 0.050           | 05/25/22 17:09 |            |

LABORATORY CONTROL SAMPLE: 1303450

| 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: 1303784

| Parameter              | Units | 70215886002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.32               | 0.5         | 0.073     | -49      | 90-110       | M1         |

MATRIX SPIKE SAMPLE: 1303792

| Parameter              | Units | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.12               | 0.5         | 0.52      | 79       | 90-110       | M1         |

SAMPLE DUPLICATE: 1303785

| Parameter              | Units | 70215886002 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.32               | <0.050     |     |            |

SAMPLE DUPLICATE: 1303793

| Parameter              | Units | 70215314013 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.12               | 0.13       | 6   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258485    | 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: 70215314016, 70215314017, 70215314018

METHOD BLANK: 1304968 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017, 70215314018

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050       | 0.050           | 05/27/22 12:43 |            |

LABORATORY CONTROL SAMPLE: 1304969

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 1           | 1.0        | 104       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1304970

| Parameter              | Units | 70216196001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.68               | 0.5         | 1.2       | 104      | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305143

| Parameter              | Units | 70216190001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.26               | 0.5         | 0.56      | 59       | 90-110       | M1         |

SAMPLE DUPLICATE: 1304971

| Parameter              | Units | 70216196001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.68               | 0.67       | 0   |            |

SAMPLE DUPLICATE: 1305144

| Parameter              | Units | 70216190001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 0.26               | 0.33       | 22  | D6         |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |                 |                       |                                     |
|------------------|-----------------|-----------------------|-------------------------------------|
| QC Batch:        | 257683          | 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: 70215314002, 70215314003, 70215314004, 70215314005

METHOD BLANK: 1301343 Matrix: Water

Associated Lab Samples: 70215314002, 70215314003, 70215314004, 70215314005

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.10        | 0.10            | 05/22/22 13:21 |            |

LABORATORY CONTROL SAMPLE: 1301344

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 1           | 1.0        | 102       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1301345

| Parameter         | Units | 70215381001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 18.0               | 10          | 29.5      | 115      | 75-125       |            |

SAMPLE DUPLICATE: 1301346

| Parameter         | Units | 70215381001 Result | Dup Result | RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|------------|
| Nitrogen, Ammonia | mg/L  | 18.0               | 17.5       | 2   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |                 |                       |                                     |
|------------------|-----------------|-----------------------|-------------------------------------|
| QC Batch:        | 257757          | 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: 70215314008, 70215314009, 70215314010, 70215314011

METHOD BLANK: 1301532 Matrix: Water  
Associated Lab Samples: 70215314008, 70215314009, 70215314010, 70215314011

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.10        | 0.10            | 05/23/22 13:08 |            |

LABORATORY CONTROL SAMPLE: 1301533

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

MATRIX SPIKE SAMPLE: 1301534

| Parameter         | Units | 70215468001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 25.9               | 10          | 34.6      | 87       | 75-125       |            |

SAMPLE DUPLICATE: 1301535

| Parameter         | Units | 70215468001 Result | Dup Result | RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|------------|
| Nitrogen, Ammonia | mg/L  | 25.9               | 24.2       | 7   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |                 |                       |                                     |
|------------------|-----------------|-----------------------|-------------------------------------|
| QC Batch:        | 258106          | 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: 70215314013, 70215314014

METHOD BLANK: 1303433 Matrix: Water

Associated Lab Samples: 70215314013, 70215314014

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.10        | 0.10            | 05/25/22 13:41 |            |

LABORATORY CONTROL SAMPLE: 1303434

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 1           | 0.96       | 96        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1303435

| Parameter         | Units | 70215314013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 4.4                | 5           | 9.4       | 100      | 75-125       |            |

SAMPLE DUPLICATE: 1303436

| Parameter         | Units | 70215314013 Result | Dup Result | RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|------------|
| Nitrogen, Ammonia | mg/L  | 4.4                | 4.3        | 2   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |                 |                       |                                     |
|------------------|-----------------|-----------------------|-------------------------------------|
| QC Batch:        | 258536          | 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: 70215314016, 70215314017

METHOD BLANK: 1305079 Matrix: Water

Associated Lab Samples: 70215314016, 70215314017

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.10        | 0.10            | 05/27/22 15:48 |            |

LABORATORY CONTROL SAMPLE: 1305080

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 1           | 1.0        | 103       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305081

| Parameter         | Units | 70216169001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 27.1               | 10          | 34.9      | 78       | 75-125       |            |

SAMPLE DUPLICATE: 1305082

| Parameter         | Units | 70216169001 Result | Dup Result | RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|------------|
| Nitrogen, Ammonia | mg/L  | 27.1               | 27.4       | 1   |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

|                  |                 |                       |                                     |
|------------------|-----------------|-----------------------|-------------------------------------|
| QC Batch:        | 258537          | 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: 70215314018

METHOD BLANK: 1305084 Matrix: Water

Associated Lab Samples: 70215314018

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.10        | 0.10            | 05/27/22 16:21 |            |

LABORATORY CONTROL SAMPLE: 1305085

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 1           | 1.0        | 104       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305086

| Parameter         | Units | 70216134001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 22.9               | 10          | 31.4      | 85       | 75-125       |            |

SAMPLE DUPLICATE: 1305087

| Parameter         | Units | 70216134001 Result | Dup Result | RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|------------|
| Nitrogen, Ammonia | mg/L  | 22.9               | 22.4       | 3   |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: EAST NORTHPORT GROUNDWATER  
Pace Project No.: 70215314

### 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.  
 Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
 TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.  
 D6 The precision between the sample and sample duplicate exceeded laboratory control limits.  
 H1 Analysis conducted outside the EPA method holding time.  
 H3 Sample was received or analysis requested beyond the recognized method holding time.  
 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.  
 MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.  
 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.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Lab ID      | Sample ID                 | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------------|-----------------|----------|-------------------|------------------|
| 70215314002 | CW-1M_5/18/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314003 | CW-1S_5/18/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314004 | CW-4M_5/18/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314005 | CW-4S_5/18/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314008 | EN6-S_5/20/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314009 | EN6-M_5/20/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314010 | EN9-M_5/20/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314011 | CW2-M_5/20/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314013 | EN7-M_5/23/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314014 | EN1-M_5/23/2022           | SM22 2340B      | 258756   |                   |                  |
| 70215314016 | FIELD BLANK_5/25/2023     | SM22 2340B      | 259497   |                   |                  |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | SM22 2340B      | 259497   |                   |                  |
| 70215314018 | EN 10-M_5/25/2025         | SM22 2340B      | 259497   |                   |                  |
| 70215314002 | CW-1M_5/18/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314003 | CW-1S_5/18/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314004 | CW-4M_5/18/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314005 | CW-4S_5/18/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314008 | EN6-S_5/20/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314009 | EN6-M_5/20/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314010 | EN9-M_5/20/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314011 | CW2-M_5/20/2022           | EPA 3005A       | 257759   | EPA 6010C         | 257816           |
| 70215314013 | EN7-M_5/23/2022           | EPA 3005A       | 258278   | EPA 6010C         | 258308           |
| 70215314014 | EN1-M_5/23/2022           | EPA 3005A       | 258278   | EPA 6010C         | 258308           |
| 70215314016 | FIELD BLANK_5/25/2023     | EPA 3005A       | 258494   | EPA 6010C         | 258508           |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | EPA 3005A       | 258494   | EPA 6010C         | 258508           |
| 70215314018 | EN 10-M_5/25/2025         | EPA 3005A       | 258494   | EPA 6010C         | 258508           |
| 70215314002 | CW-1M_5/18/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314003 | CW-1S_5/18/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314004 | CW-4M_5/18/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314005 | CW-4S_5/18/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314008 | EN6-S_5/20/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314009 | EN6-M_5/20/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314010 | EN9-M_5/20/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314011 | CW2-M_5/20/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314013 | EN7-M_5/23/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314014 | EN1-M_5/23/2022           | EPA 7470A       | 258378   | EPA 7470A         | 258422           |
| 70215314016 | FIELD BLANK_5/25/2023     | EPA 7470A       | 259248   | EPA 7470A         | 259279           |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | EPA 7470A       | 259248   | EPA 7470A         | 259279           |
| 70215314018 | EN 10-M_5/25/2025         | EPA 7470A       | 259248   | EPA 7470A         | 259279           |
| 70215314001 | TRIP BLANK_5/18/2022      | EPA 624.1       | 257599   |                   |                  |
| 70215314002 | CW-1M_5/18/2022           | EPA 624.1       | 257599   |                   |                  |
| 70215314003 | CW-1S_5/18/2022           | EPA 624.1       | 257599   |                   |                  |
| 70215314004 | CW-4M_5/18/2022           | EPA 624.1       | 257599   |                   |                  |
| 70215314005 | CW-4S_5/18/2022           | EPA 624.1       | 257599   |                   |                  |
| 70215314006 | STORAGE BLANK 5/19/2022   | EPA 624.1       | 257599   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Lab ID      | Sample ID                  | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------------------|-----------------|----------|-------------------|------------------|
| 70215314007 | TRIP BLANK_ 5/20/2022      | EPA 624.1       | 257810   |                   |                  |
| 70215314008 | EN6-S_ 5/20/2022           | EPA 624.1       | 257810   |                   |                  |
| 70215314009 | EN6-M_ 5/20/2022           | EPA 624.1       | 257810   |                   |                  |
| 70215314010 | EN9-M_ 5/20/2022           | EPA 624.1       | 257810   |                   |                  |
| 70215314011 | CW2-M_ 5/20/2022           | EPA 624.1       | 257810   |                   |                  |
| 70215314012 | TRIP BLANK_ 5/23/2022      | EPA 624.1       | 258091   |                   |                  |
| 70215314013 | EN7-M_ 5/23/2022           | EPA 624.1       | 258091   |                   |                  |
| 70215314014 | EN1-M_ 5/23/2022           | EPA 624.1       | 258091   |                   |                  |
| 70215314015 | TRIP BLANK_ 5/25/2022      | EPA 624.1       | 258591   |                   |                  |
| 70215314016 | FIELD BLANK_ 5/25/2023     | EPA 624.1       | 258591   |                   |                  |
| 70215314017 | BLIND DUPLICATE_ 5/25/2024 | EPA 624.1       | 258591   |                   |                  |
| 70215314018 | EN 10-M_ 5/25/2025         | EPA 624.1       | 258591   |                   |                  |
| 70215314002 | CW-1M_ 5/18/2022           | SM22 2320B      | 258297   |                   |                  |
| 70215314003 | CW-1S_ 5/18/2022           | SM22 2320B      | 258297   |                   |                  |
| 70215314004 | CW-4M_ 5/18/2022           | SM22 2320B      | 258297   |                   |                  |
| 70215314005 | CW-4S_ 5/18/2022           | SM22 2320B      | 258297   |                   |                  |
| 70215314008 | EN6-S_ 5/20/2022           | SM22 2320B      | 258691   |                   |                  |
| 70215314009 | EN6-M_ 5/20/2022           | SM22 2320B      | 258691   |                   |                  |
| 70215314010 | EN9-M_ 5/20/2022           | SM22 2320B      | 258691   |                   |                  |
| 70215314011 | CW2-M_ 5/20/2022           | SM22 2320B      | 258691   |                   |                  |
| 70215314013 | EN7-M_ 5/23/2022           | SM22 2320B      | 258734   |                   |                  |
| 70215314014 | EN1-M_ 5/23/2022           | SM22 2320B      | 258734   |                   |                  |
| 70215314016 | FIELD BLANK_ 5/25/2023     | SM22 2320B      | 259040   |                   |                  |
| 70215314017 | BLIND DUPLICATE_ 5/25/2024 | SM22 2320B      | 259040   |                   |                  |
| 70215314018 | EN 10-M_ 5/25/2025         | SM22 2320B      | 259040   |                   |                  |
| 70215314002 | CW-1M_ 5/18/2022           | SM22 2540C      | 257899   |                   |                  |
| 70215314003 | CW-1S_ 5/18/2022           | SM22 2540C      | 257899   |                   |                  |
| 70215314004 | CW-4M_ 5/18/2022           | SM22 2540C      | 257899   |                   |                  |
| 70215314005 | CW-4S_ 5/18/2022           | SM22 2540C      | 257899   |                   |                  |
| 70215314008 | EN6-S_ 5/20/2022           | SM22 2540C      | 258082   |                   |                  |
| 70215314009 | EN6-M_ 5/20/2022           | SM22 2540C      | 258082   |                   |                  |
| 70215314010 | EN9-M_ 5/20/2022           | SM22 2540C      | 258082   |                   |                  |
| 70215314011 | CW2-M_ 5/20/2022           | SM22 2540C      | 258082   |                   |                  |
| 70215314013 | EN7-M_ 5/23/2022           | SM22 2540C      | 258481   |                   |                  |
| 70215314014 | EN1-M_ 5/23/2022           | SM22 2540C      | 258481   |                   |                  |
| 70215314016 | FIELD BLANK_ 5/25/2023     | SM22 2540C      | 258865   |                   |                  |
| 70215314017 | BLIND DUPLICATE_ 5/25/2024 | SM22 2540C      | 258865   |                   |                  |
| 70215314018 | EN 10-M_ 5/25/2025         | SM22 2540C      | 258865   |                   |                  |
| 70215314002 | CW-1M_ 5/18/2022           | EPA 300.0       | 257782   |                   |                  |
| 70215314003 | CW-1S_ 5/18/2022           | EPA 300.0       | 257782   |                   |                  |
| 70215314004 | CW-4M_ 5/18/2022           | EPA 300.0       | 257782   |                   |                  |
| 70215314005 | CW-4S_ 5/18/2022           | EPA 300.0       | 257782   |                   |                  |
| 70215314008 | EN6-S_ 5/20/2022           | EPA 300.0       | 257935   |                   |                  |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Lab ID      | Sample ID                 | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------------|-----------------|----------|-------------------|------------------|
| 70215314009 | EN6-M_5/20/2022           | EPA 300.0       | 257935   |                   |                  |
| 70215314010 | EN9-M_5/20/2022           | EPA 300.0       | 257935   |                   |                  |
| 70215314011 | CW2-M_5/20/2022           | EPA 300.0       | 257935   |                   |                  |
| 70215314013 | EN7-M_5/23/2022           | EPA 300.0       | 258345   |                   |                  |
| 70215314014 | EN1-M_5/23/2022           | EPA 300.0       | 258345   |                   |                  |
| 70215314016 | FIELD BLANK_5/25/2023     | EPA 300.0       | 258656   |                   |                  |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | EPA 300.0       | 258656   |                   |                  |
| 70215314018 | EN 10-M_5/25/2025         | EPA 300.0       | 258656   |                   |                  |
| 70215314002 | CW-1M_5/18/2022           | EPA 353.2       | 257604   |                   |                  |
| 70215314003 | CW-1S_5/18/2022           | EPA 353.2       | 257604   |                   |                  |
| 70215314004 | CW-4M_5/18/2022           | EPA 353.2       | 257604   |                   |                  |
| 70215314005 | CW-4S_5/18/2022           | EPA 353.2       | 257604   |                   |                  |
| 70215314008 | EN6-S_5/20/2022           | EPA 353.2       | 257673   |                   |                  |
| 70215314009 | EN6-M_5/20/2022           | EPA 353.2       | 257673   |                   |                  |
| 70215314010 | EN9-M_5/20/2022           | EPA 353.2       | 257673   |                   |                  |
| 70215314011 | CW2-M_5/20/2022           | EPA 353.2       | 257673   |                   |                  |
| 70215314013 | EN7-M_5/23/2022           | EPA 353.2       | 258111   |                   |                  |
| 70215314014 | EN1-M_5/23/2022           | EPA 353.2       | 258111   |                   |                  |
| 70215314016 | FIELD BLANK_5/25/2023     | EPA 353.2       | 258485   |                   |                  |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | EPA 353.2       | 258485   |                   |                  |
| 70215314018 | EN 10-M_5/25/2025         | EPA 353.2       | 258485   |                   |                  |
| 70215314002 | CW-1M_5/18/2022           | EPA 353.2       | 257504   |                   |                  |
| 70215314003 | CW-1S_5/18/2022           | EPA 353.2       | 257504   |                   |                  |
| 70215314004 | CW-4M_5/18/2022           | EPA 353.2       | 257504   |                   |                  |
| 70215314005 | CW-4S_5/18/2022           | EPA 353.2       | 257504   |                   |                  |
| 70215314008 | EN6-S_5/20/2022           | EPA 353.2       | 257649   |                   |                  |
| 70215314009 | EN6-M_5/20/2022           | EPA 353.2       | 257649   |                   |                  |
| 70215314010 | EN9-M_5/20/2022           | EPA 353.2       | 257649   |                   |                  |
| 70215314011 | CW2-M_5/20/2022           | EPA 353.2       | 257650   |                   |                  |
| 70215314013 | EN7-M_5/23/2022           | EPA 353.2       | 258065   |                   |                  |
| 70215314014 | EN1-M_5/23/2022           | EPA 353.2       | 258065   |                   |                  |
| 70215314016 | FIELD BLANK_5/25/2023     | EPA 353.2       | 258442   |                   |                  |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | EPA 353.2       | 258442   |                   |                  |
| 70215314018 | EN 10-M_5/25/2025         | EPA 353.2       | 258442   |                   |                  |
| 70215314002 | CW-1M_5/18/2022           | SM22 4500 NH3 H | 257683   |                   |                  |
| 70215314003 | CW-1S_5/18/2022           | SM22 4500 NH3 H | 257683   |                   |                  |
| 70215314004 | CW-4M_5/18/2022           | SM22 4500 NH3 H | 257683   |                   |                  |
| 70215314005 | CW-4S_5/18/2022           | SM22 4500 NH3 H | 257683   |                   |                  |
| 70215314008 | EN6-S_5/20/2022           | SM22 4500 NH3 H | 257757   |                   |                  |
| 70215314009 | EN6-M_5/20/2022           | SM22 4500 NH3 H | 257757   |                   |                  |
| 70215314010 | EN9-M_5/20/2022           | SM22 4500 NH3 H | 257757   |                   |                  |
| 70215314011 | CW2-M_5/20/2022           | SM22 4500 NH3 H | 257757   |                   |                  |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT GROUNDWATER

Pace Project No.: 70215314

| Lab ID      | Sample ID                 | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------------|-----------------|----------|-------------------|------------------|
| 70215314013 | EN7-M_5/23/2022           | SM22 4500 NH3 H | 258106   |                   |                  |
| 70215314014 | EN1-M_5/23/2022           | SM22 4500 NH3 H | 258106   |                   |                  |
| 70215314016 | FIELD BLANK_5/25/2023     | SM22 4500 NH3 H | 258536   |                   |                  |
| 70215314017 | BLIND DUPLICATE_5/25/2024 | SM22 4500 NH3 H | 258536   |                   |                  |
| 70215314018 | EN 10-M_5/25/2025         | SM22 4500 NH3 H | 258537   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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## Sample Condition Upon Receipt

Client Name: D+B

Project

WO#: 70215314

PM: GFD

Due Date: 05/31/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☐ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ OtherThermometer Used: TH091TH189 Correction Factor: + 0.1Cooler Temperature(°C): 0.2 Cooler Temperature Corrected(°C): 0.3Trip Blank Present: ☐ Yes ☒ NoType of Ice: Wet Blue None☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)Date and Initials of person examining contents: 5/19/22 SHDid 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:                                                                     | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 1.                                                                                                                                                               |
| Chain of Custody Filled Out:                                                                  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 2.                                                                                                                                                               |
| Chain of Custody Relinquished:                                                                | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 3.                                                                                                                                                               |
| Sampler Name & Signature on COC:                                                              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            | 4.                                                                                                                                                               |
| Samples Arrived within Hold Time:                                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 5.                                                                                                                                                               |
| Short Hold Time Analysis (<72hr):                                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 6.                                                                                                                                                               |
| Rush Turn Around Time Requested:                                                              | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |                                         | 7.                                                                                                                                                               |
| Sufficient Volume: (Triple volume provided for I)                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 8.                                                                                                                                                               |
| Correct Containers Used:                                                                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 9.                                                                                                                                                               |
| -Pace Containers Used:                                                                        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         |                                                                                                                                                                  |
| Containers Intact:                                                                            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 10.                                                                                                                                                              |
| Filtered volume received for Dissolved tests                                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 11. Note if sediment is visible in the dissolved container.                                                                                                      |
| Sample Labels match COC:                                                                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 12.                                                                                                                                                              |
| -Includes date/time/ID, Matrix: SL WT OIL                                                     |                                         |                                        |                                         |                                                                                                                                                                  |
| All containers needing preservation have been checked?                                        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            | 13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl |
| pH paper Lot # <u>4c160347</u>                                                                |                                         |                                        |                                         | Sample #                                                                                                                                                         |
| All containers needing preservation are found to be in compliance with method recommendation? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            |                                                                                                                                                                  |
| (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)    |                                         |                                        |                                         |                                                                                                                                                                  |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).                         |                                         |                                        |                                         | Initial when completed: Lot # of added preservative: Date/Time preservative added:                                                                               |
| Per Method, VOA pH is checked after analysis                                                  |                                         |                                        |                                         |                                                                                                                                                                  |
| Samples checked for dechlorination:                                                           | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.                                                                                                                                                              |
| KI starch test strips Lot #                                                                   |                                         |                                        |                                         | Positive for Res. Chlorine? Y N                                                                                                                                  |
| Residual chlorine strips Lot #                                                                |                                         |                                        |                                         |                                                                                                                                                                  |
| SM 4500 CN samples checked for sulfide?                                                       | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15. Positive for Sulfide? Y N                                                                                                                                    |
| Lead Acetate Strips Lot #                                                                     |                                         |                                        |                                         |                                                                                                                                                                  |
| Headspace in VOA Vials (>6mm):                                                                | <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A            | 16.                                                                                                                                                              |
| Trip Blank Present:                                                                           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            | 17.                                                                                                                                                              |
| Trip Blank Custody Seals Present                                                              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> 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

Pace Analytical®

Client Name:

Project

WO#: 70215314

PM: GFD

Due Date: 05/31/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ OtherType of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: ~~TH091~~ TH189 Correction Factor: + 0.1☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 0.1 Cooler Temperature Corrected (°C): 0.2

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents:

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:                                                                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 1.                                                      |
| Chain of Custody Filled Out:                                                                   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 2.                                                      |
| Chain of Custody Relinquished:                                                                 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 3.                                                      |
| Sampler Name & Signature on COC:                                                               | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            | 4.                                                      |
| Samples Arrived within Hold Time:                                                              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 5.                                                      |
| Short Hold Time Analysis (<72hr):                                                              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 6.                                                      |
| Rush Turn Around Time Requested:                                                               | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |                                         | 7.                                                      |
| Sufficient Volume: (Triple volume provided for I)                                              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 8.                                                      |
| Correct Containers Used:                                                                       | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 9.                                                      |
| -Pace Containers Used:                                                                         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 10.                                                     |
| Containers Intact:                                                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 11.                                                     |
| Filtered volume received for Dissolved tests                                                   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | Note if sediment is visible in the dissolved container. |
| Sample Labels match COC:                                                                       | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 12.                                                     |
| -Includes date/time/ID, Matrix: SL WT OIL                                                      |                                         |                                        |                                         |                                                         |
| All containers needing preservation have been checked?                                         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            | 13.                                                     |
| pH paper Lot # HC281827                                                                        |                                         |                                        |                                         |                                                         |
| All containers needing preservation are found to be in compliance with method recommendation?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            | Sample #                                                |
| (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , 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:                                                            | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.                                                     |
| KI starch test strips Lot #                                                                    |                                         |                                        |                                         |                                                         |
| Residual chlorine strips Lot #                                                                 |                                         |                                        |                                         | Positive for Res. Chlorine? Y N                         |
| SM 4500 CN samples checked for sulfide?                                                        | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15.                                                     |
| Lead Acetate Strips Lot #                                                                      |                                         |                                        |                                         | Positive for Sulfide? Y N                               |
| Headspace in VOA Vials (>6mm):                                                                 | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 16.                                                     |
| Trip Blank Present:                                                                            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 17.                                                     |
| Trip Blank Custody Seals Present                                                               | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> N/A            |                                                         |
| Pace Trip Blank Lot # (if applicable):                                                         |                                         |                                        |                                         |                                                         |

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

\* PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01





Client Name:

D&amp;B

Project:

PM: GFD

Due Date: 05/31/22

CLIENT: D&amp;B

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☒ No

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

Type of Ice: ☒ Wt Blue None

Thermometer Used: ~~TH091~~ TH158 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.3 Cooler Temperature Corrected(°C): 1.4

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: KW 5/24/22

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:                                                                     | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 1.                                                      |
| Chain of Custody Filled Out:                                                                  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 2.                                                      |
| Chain of Custody Relinquished:                                                                | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 3.                                                      |
| Sampler Name & Signature on COC:                                                              | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 4.                                                      |
| Samples Arrived within Hold Time:                                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 5.                                                      |
| Short Hold Time Analysis (<72hr):                                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 6.                                                      |
| Rush Turn Around Time Requested:                                                              | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |                                         | 7.                                                      |
| Sufficient Volume: (Triple volume provided for I)                                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 8.                                                      |
| Correct Containers Used:                                                                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 9.                                                      |
| -Pace Containers Used:                                                                        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 10.                                                     |
| Containers Intact:                                                                            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 11.                                                     |
| Filtered volume received for Dissolved tests                                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | Note if sediment is visible in the dissolved container. |
| Sample Labels match COC:                                                                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |                                         | 12.                                                     |
| -Includes date/time/ID, Matrix: SL WT OIL                                                     |                                         |                                        |                                         |                                                         |
| All containers needing preservation have been checked?                                        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 13.                                                     |
| pH paper Lot # 11C160317                                                                      |                                         |                                        |                                         |                                                         |
| All containers needing preservation are found to be in compliance with method recommendation? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | Sample #                                                |
| (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , 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:                                                           | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.                                                     |
| KI starch test strips Lot #                                                                   |                                         |                                        |                                         |                                                         |
| Residual chlorine strips Lot #                                                                |                                         |                                        |                                         | Positive for Res. Chlorine? Y N                         |
| SM 4500 CN samples checked for sulfide?                                                       | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15.                                                     |
| Lead Acetate Strips Lot #                                                                     |                                         |                                        |                                         | Positive for Sulfide? Y N                               |
| Headspace in VOA Vials (>6mm):                                                                | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 16.                                                     |
| Trip Blank Present:                                                                           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 17.                                                     |
| Trip Blank Custody Seals Present                                                              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                                                         |
| Pace Trip Blank Lot # (if applicable):                                                        |                                         |                                        |                                         |                                                         |

Field Data Required?

Y / N

Date/Time:

Client Notification/ Resolution:

Person Contacted:

Comments/ Resolution:







## Sample Condition Upon Receipt

WO#: 70215314

Client Name:

Project:

PM: GFD

Due Date: 05/31/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Ziploc ☐ None ☐ OtherThermometer Used: ~~TH091~~ TH188 Correction Factor: + 0.1

Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.4

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: SH 5/26/22

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

June 07, 2022

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

RE: Project: EAST NORTHPORT SURFACE WATERS  
Pace Project No.: 70216287

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2022. 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

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Donna Brown, D&B Engineers and Architects, P.C.  
Tom Fox, D&B Engineers and Architects, P.C.  
Robbin Petrella, D&B Engineers and Architects, P.C.



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

---

**Method:** SM22 2340B

**Description:** 2340B Hardness, Total (Calc.)

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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 SURFACE WATERS

Pace Project No.: 70216287

---

**Method:** EPA 6010C

**Description:** 6010 MET ICP

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### 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 SURFACE WATERS

Pace Project No.: 70216287

**Method:** EPA 624.1

**Description:** 624.1 Volatile Organics

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

9 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: 258591

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: 1305338)
  - Dichlorodifluoromethane
- LCS (Lab ID: 1305339)
  - Dichlorodifluoromethane
- MS (Lab ID: 1305612)
  - Dichlorodifluoromethane
- MSD (Lab ID: 1305613)
  - Dichlorodifluoromethane
- SW-1 (Lab ID: 70216287002)
  - Dichlorodifluoromethane
- SW-2 (Lab ID: 70216287003)
  - Dichlorodifluoromethane
- SW-3 (Lab ID: 70216287004)
  - Dichlorodifluoromethane
- SW-4 (Lab ID: 70216287005)
  - Dichlorodifluoromethane
- SW-5 (Lab ID: 70216287006)
  - Dichlorodifluoromethane
- SW-6 (Lab ID: 70216287007)
  - Dichlorodifluoromethane
- SW-7 (Lab ID: 70216287008)
  - Dichlorodifluoromethane
- TRIP BLANK (Lab ID: 70216287001)
  - Dichlorodifluoromethane

### Internal Standards:

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

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

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**Method:** EPA 624.1

**Description:** 624.1 Volatile Organics

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

**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: 258591

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70216204001

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

- MS (Lab ID: 1305612)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene

**Additional Comments:**

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## PROJECT NARRATIVE

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

**Method:** SM22 2320B

**Description:** 2320B Alkalinity

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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: 259040

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: 1307568)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

### Matrix Spikes:

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

QC Batch: 259040

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215880003

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

- MS (Lab ID: 1307570)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

QC Batch: 259108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70215903001

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

- MS (Lab ID: 1307740)
- Alkalinity, Carbonate (CaCO<sub>3</sub>)

### 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 SURFACE WATERS

Pace Project No.: 70216287

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**Method:** SM22 2540C

**Description:** 2540C Total Dissolved Solids

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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 SURFACE WATERS

Pace Project No.: 70216287

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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 SURFACE WATERS

Pace Project No.: 70216287

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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: 258699

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70216287006, 70216290001

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

- MS (Lab ID: 1305947)
- 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 SURFACE WATERS

Pace Project No.: 70216287

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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: 258614

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70216287002,70216290011

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

- MS (Lab ID: 1305600)
  - Nitrite as N
- MS (Lab ID: 1305602)
  - Nitrite as N

### 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 SURFACE WATERS

Pace Project No.: 70216287

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**Method:** SM22 4500 NH3 H

**Description:** 4500 Ammonia Water

**Client:** Dvirka & Bartilucci

**Date:** June 07, 2022

### General Information:

7 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 SURFACE WATERS

Pace Project No.: 70216287

| Sample: TRIP BLANK             |         | Lab ID: 70216287001                                                 | Collected: 05/27/22 00:00 | Received: 05/27/22 11:45 | Matrix: Water |                |            |      |
|--------------------------------|---------|---------------------------------------------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                     | Results | Units                                                               | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>624.1 Volatile Organics</b> |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville |                           |                          |               |                |            |      |
| Benzene                        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 71-43-2    |      |
| Bromodichloromethane           | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-27-4    |      |
| Bromoform                      | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-25-2    |      |
| Bromomethane                   | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 74-83-9    |      |
| Carbon tetrachloride           | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 56-23-5    |      |
| Chlorobenzene                  | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 108-90-7   |      |
| Chloroethane                   | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-00-3    |      |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 110-75-8   |      |
| Chloroform                     | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 67-66-3    |      |
| Chloromethane                  | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 74-87-3    |      |
| Dibromochloromethane           | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 124-48-1   |      |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 106-46-7   |      |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-71-8    | v3   |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-34-3    |      |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 107-06-2   |      |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 156-60-5   |      |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 10061-02-6 |      |
| Ethylbenzene                   | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 100-41-4   |      |
| Methylene Chloride             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-09-2    |      |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 79-34-5    |      |
| Tetrachloroethene              | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 127-18-4   |      |
| Toluene                        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 108-88-3   |      |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 79-00-5    |      |
| Trichloroethene                | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 79-01-6    |      |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-69-4    |      |
| Vinyl chloride                 | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 75-01-4    |      |
| Xylene (Total)                 | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/27/22 19:51 | 1330-20-7  |      |
| <b>Surrogates</b>              |         |                                                                     |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)       | 103     | %                                                                   | 80-110                    | 1                        |               | 05/27/22 19:51 | 460-00-4   |      |
| Toluene-d8 (S)                 | 95      | %                                                                   | 87-120                    | 1                        |               | 05/27/22 19:51 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)      | 91      | %                                                                   | 76-127                    | 1                        |               | 05/27/22 19:51 | 17060-07-0 |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-1                   |         | Lab ID: 70216287002                                                                               |              | Collected: 05/27/22 08:25 |                | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 72800   | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 18:53           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Calcium                        | 17700   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 18:53           | 7440-70-2  |               |  |
| Magnesium                      | 6950    | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 18:53           | 7439-95-4  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 100-41-4   |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:09           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                                                   |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 105     | %                                                                                                 | 80-110       | 1                         |                | 05/27/22 20:09           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 96      | %                                                                                                 | 87-120       | 1                         |                | 05/27/22 20:09           | 2037-26-5  |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-1                   |         | Lab ID: 70216287002                                                       |              | Collected: 05/27/22 08:25 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)      | 90      | %                                                                         | 76-127       | 1                         |          | 05/27/22 20:09           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 45.2    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 12:20           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 45.2    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 12:20           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 12:20           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 163     | mg/L                                                                      | 10.0         | 1                         |          | 06/03/22 13:35           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 56.2    | mg/L                                                                      | 2.0          | 1                         |          | 06/03/22 00:24           | 16887-00-6 |               |  |
| Sulfate                        | 19.0    | mg/L                                                                      | 5.0          | 1                         |          | 06/03/22 00:24           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 2.1     | mg/L                                                                      | 0.10         | 2                         |          | 05/31/22 12:09           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 2.2     | mg/L                                                                      | 0.10         | 2                         |          | 05/31/22 12:09           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | 0.088   | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 23:17           | 14797-65-0 | M1            |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.13    | mg/L                                                                      | 0.10         | 1                         |          | 06/01/22 11:46           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-2                   |         | Lab ID: 70216287003                                                                               |              | Collected: 05/27/22 08:55 |                | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 131000  | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 18:55           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Calcium                        | 28600   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 18:55           | 7440-70-2  |               |  |
| Magnesium                      | 14500   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 18:55           | 7439-95-4  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 100-41-4   |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:28           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                                                   |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 105     | %                                                                                                 | 80-110       | 1                         |                | 05/27/22 20:28           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 96      | %                                                                                                 | 87-120       | 1                         |                | 05/27/22 20:28           | 2037-26-5  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-2                   |         | Lab ID: 70216287003                                                       |              | Collected: 05/27/22 08:55 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)      | 90      | %                                                                         | 76-127       | 1                         |          | 05/27/22 20:28           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 89.1    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 12:28           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 89.1    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 12:28           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 12:28           |            | L2            |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 296     | mg/L                                                                      | 10.0         | 1                         |          | 06/03/22 13:35           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 96.9    | mg/L                                                                      | 2.0          | 1                         |          | 06/03/22 00:38           | 16887-00-6 |               |  |
| Sulfate                        | 40.3    | mg/L                                                                      | 5.0          | 1                         |          | 06/03/22 00:38           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 2.2     | mg/L                                                                      | 0.10         | 2                         |          | 05/31/22 12:14           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 2.2     | mg/L                                                                      | 0.10         | 2                         |          | 05/31/22 12:14           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 23:20           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.088J  | mg/L                                                                      | 0.10         | 1                         |          | 06/01/22 11:47           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-3                   |         | Lab ID: 70216287004                                                                               |              | Collected: 05/27/22 09:15 |                | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 116000  | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 18:58           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Calcium                        | 25600   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 18:58           | 7440-70-2  |               |  |
| Magnesium                      | 12700   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 18:58           | 7439-95-4  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 100-41-4   |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 20:46           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                                                   |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 104     | %                                                                                                 | 80-110       | 1                         |                | 05/27/22 20:46           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 95      | %                                                                                                 | 87-120       | 1                         |                | 05/27/22 20:46           | 2037-26-5  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-3                   |         | Lab ID: 70216287004                                                       |              | Collected: 05/27/22 09:15 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)      | 90      | %                                                                         | 76-127       | 1                         |          | 05/27/22 20:46           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 47.3    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:28           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 47.3    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:28           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:28           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 252     | mg/L                                                                      | 10.0         | 1                         |          | 06/03/22 13:36           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 90.2    | mg/L                                                                      | 2.0          | 1                         |          | 06/03/22 01:32           | 16887-00-6 |               |  |
| Sulfate                        | 33.4    | mg/L                                                                      | 5.0          | 1                         |          | 06/03/22 01:32           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 1.9     | mg/L                                                                      | 0.25         | 5                         |          | 05/31/22 12:15           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 1.9     | mg/L                                                                      | 0.25         | 5                         |          | 05/31/22 12:15           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 23:25           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 06/01/22 11:48           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-4                   |         | Lab ID: 70216287005                                                                               |              | Collected: 05/27/22 08:00 |                | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 82300   | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 19:00           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Calcium                        | 19700   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 19:00           | 7440-70-2  |               |  |
| Magnesium                      | 8040    | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 19:00           | 7439-95-4  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 100-41-4   |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:04           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                                                   |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 105     | %                                                                                                 | 80-110       | 1                         |                | 05/27/22 21:04           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 94      | %                                                                                                 | 87-120       | 1                         |                | 05/27/22 21:04           | 2037-26-5  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-4                   |         | Lab ID: 70216287005                                                       |              | Collected: 05/27/22 08:00 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)      | 91      | %                                                                         | 76-127       | 1                         |          | 05/27/22 21:04           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 43.4    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:35           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 43.4    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:35           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:35           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 191     | mg/L                                                                      | 10.0         | 1                         |          | 06/03/22 13:36           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 63.4    | mg/L                                                                      | 2.0          | 1                         |          | 06/03/22 01:46           | 16887-00-6 |               |  |
| Sulfate                        | 20.9    | mg/L                                                                      | 5.0          | 1                         |          | 06/03/22 01:46           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 2.6     | mg/L                                                                      | 0.10         | 2                         |          | 05/31/22 12:16           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 2.7     | mg/L                                                                      | 0.10         | 2                         |          | 05/31/22 12:16           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | 0.066   | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 23:13           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.11    | mg/L                                                                      | 0.10         | 1                         |          | 06/01/22 11:49           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-5                   |         | Lab ID: 70216287006                                                                               |              | Collected: 05/27/22 09:35 |                | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 95300   | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 19:02           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Calcium                        | 21500   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 19:02           | 7440-70-2  |               |  |
| Magnesium                      | 10100   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 19:02           | 7439-95-4  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 100-41-4   |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:23           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                                                   |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 102     | %                                                                                                 | 80-110       | 1                         |                | 05/27/22 21:23           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 95      | %                                                                                                 | 87-120       | 1                         |                | 05/27/22 21:23           | 2037-26-5  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-5                         |         | Lab ID: 70216287006 |              | Collected: 05/27/22 09:35 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------------|---------|---------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                           | Results | Units               | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| <b>624.1 Volatile Organics</b>       |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: EPA 624.1         |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| <b>Surrogates</b>                    |         |                     |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)            | 91      | %                   | 76-127       | 1                         |          | 05/27/22 21:23           | 17060-07-0 |               |  |
| <b>2320B Alkalinity</b>              |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: SM22 2320B        |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3           | 58.3    | mg/L                | 1.0          | 1                         |          | 06/02/22 13:42           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3)       | 58.3    | mg/L                | 1.0          | 1                         |          | 06/02/22 13:42           |            |               |  |
| Alkalinity,Carbonate (CaCO3)         | <1.0    | mg/L                | 1.0          | 1                         |          | 06/02/22 13:42           |            |               |  |
| <b>2540C Total Dissolved Solids</b>  |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: SM22 2540C        |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| Total Dissolved Solids               | 231     | mg/L                | 10.0         | 1                         |          | 06/03/22 13:36           |            |               |  |
| <b>300.0 IC Anions 28 Days</b>       |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: EPA 300.0         |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| Chloride                             | 83.9    | mg/L                | 2.0          | 1                         |          | 06/03/22 01:59           | 16887-00-6 |               |  |
| Sulfate                              | 24.1    | mg/L                | 5.0          | 1                         |          | 06/03/22 01:59           | 14808-79-8 |               |  |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: EPA 353.2         |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| Nitrate as N                         | 1.6     | mg/L                | 0.10         | 2                         |          | 05/31/22 12:17           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)               | 1.6     | mg/L                | 0.10         | 2                         |          | 05/31/22 12:17           | 7727-37-9  | M1            |  |
| <b>353.2 Nitrogen, NO2</b>           |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: EPA 353.2         |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| Nitrite as N                         | 0.034J  | mg/L                | 0.050        | 1                         |          | 05/27/22 23:30           | 14797-65-0 |               |  |
| <b>4500 Ammonia Water</b>            |         |                     |              |                           |          |                          |            |               |  |
| Analytical Method: SM22 4500 NH3 H   |         |                     |              |                           |          |                          |            |               |  |
| Pace Analytical Services - Melville  |         |                     |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia                    | 0.084J  | mg/L                | 0.10         | 1                         |          | 06/01/22 12:12           | 7664-41-7  |               |  |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-6                   |         | Lab ID: 70216287007                                                                               |              | Collected: 05/27/22 10:15 |                | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                                             | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 2340B Hardness, Total (Calc.)  |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |              |                           |                |                          |            |               |  |
| Tot Hardness asCaCO3 (SM 2340B | 68500   | ug/L                                                                                              | 830          | 1                         |                | 05/31/22 19:09           |            |               |  |
| 6010 MET ICP                   |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |              |                           |                |                          |            |               |  |
| Calcium                        | 15200   | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 19:09           | 7440-70-2  |               |  |
| Magnesium                      | 7420    | ug/L                                                                                              | 200          | 1                         | 05/31/22 11:20 | 05/31/22 19:09           | 7439-95-4  |               |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |              |                           |                |                          |            |               |  |
| Benzene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 71-43-2    |               |  |
| Bromodichloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-27-4    |               |  |
| Bromoform                      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-25-2    |               |  |
| Bromomethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 74-83-9    |               |  |
| Carbon tetrachloride           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 56-23-5    |               |  |
| Chlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 108-90-7   |               |  |
| Chloroethane                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-00-3    |               |  |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 110-75-8   |               |  |
| Chloroform                     | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 67-66-3    |               |  |
| Chloromethane                  | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 74-87-3    |               |  |
| Dibromochloromethane           | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 124-48-1   |               |  |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 95-50-1    |               |  |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 541-73-1   |               |  |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 106-46-7   |               |  |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-71-8    | v3            |  |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-34-3    |               |  |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 107-06-2   |               |  |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-35-4    |               |  |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 156-59-2   |               |  |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 156-60-5   |               |  |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 78-87-5    |               |  |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 10061-01-5 |               |  |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 10061-02-6 |               |  |
| Ethylbenzene                   | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 100-41-4   |               |  |
| Methylene Chloride             | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-09-2    |               |  |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 79-34-5    |               |  |
| Tetrachloroethene              | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 127-18-4   |               |  |
| Toluene                        | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 108-88-3   |               |  |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 71-55-6    |               |  |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 79-00-5    |               |  |
| Trichloroethene                | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 79-01-6    |               |  |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-69-4    |               |  |
| Vinyl chloride                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 75-01-4    |               |  |
| Xylene (Total)                 | <1.0    | ug/L                                                                                              | 1.0          | 1                         |                | 05/27/22 21:41           | 1330-20-7  |               |  |
| Surrogates                     |         |                                                                                                   |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)       | 102     | %                                                                                                 | 80-110       | 1                         |                | 05/27/22 21:41           | 460-00-4   |               |  |
| Toluene-d8 (S)                 | 94      | %                                                                                                 | 87-120       | 1                         |                | 05/27/22 21:41           | 2037-26-5  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-6                   |         | Lab ID: 70216287007                                                       |              | Collected: 05/27/22 10:15 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)      | 92      | %                                                                         | 76-127       | 1                         |          | 05/27/22 21:41           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 44.8    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:48           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 44.8    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:48           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:48           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 267     | mg/L                                                                      | 10.0         | 1                         |          | 06/03/22 13:37           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 131     | mg/L                                                                      | 10.0         | 5                         |          | 06/03/22 20:19           | 16887-00-6 |               |  |
| Sulfate                        | 14.5    | mg/L                                                                      | 5.0          | 1                         |          | 06/03/22 02:13           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 0.088   | mg/L                                                                      | 0.050        | 1                         |          | 05/31/22 12:21           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 0.10    | mg/L                                                                      | 0.050        | 1                         |          | 05/31/22 12:21           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 23:31           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | 0.067J  | mg/L                                                                      | 0.10         | 1                         |          | 06/01/22 12:13           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-7                         |         | Lab ID: 70216287008                                                                               | Collected: 05/27/22 10:50 | Received: 05/27/22 11:45 | Matrix: Water  |                |            |      |
|--------------------------------------|---------|---------------------------------------------------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                           | Results | Units                                                                                             | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>2340B Hardness, Total (Calc.)</b> |         | Analytical Method: SM22 2340B<br>Pace Analytical Services - Melville                              |                           |                          |                |                |            |      |
| Tot Hardness asCaCO3 (SM 2340B)      | 4050000 | ug/L                                                                                              | 830                       | 1                        |                | 05/31/22 19:12 |            |      |
| <b>6010 MET ICP</b>                  |         | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Melville |                           |                          |                |                |            |      |
| Calcium                              | 264000  | ug/L                                                                                              | 200                       | 1                        | 05/31/22 11:20 | 05/31/22 19:12 | 7440-70-2  |      |
| Magnesium                            | 824000  | ug/L                                                                                              | 200                       | 1                        | 05/31/22 11:20 | 05/31/22 19:12 | 7439-95-4  |      |
| <b>624.1 Volatile Organics</b>       |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville                               |                           |                          |                |                |            |      |
| Benzene                              | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 71-43-2    |      |
| Bromodichloromethane                 | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-27-4    |      |
| Bromoform                            | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-25-2    |      |
| Bromomethane                         | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 74-83-9    |      |
| Carbon tetrachloride                 | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 56-23-5    |      |
| Chlorobenzene                        | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 108-90-7   |      |
| Chloroethane                         | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-00-3    |      |
| 2-Chloroethylvinyl ether             | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 110-75-8   |      |
| Chloroform                           | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 67-66-3    |      |
| Chloromethane                        | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 74-87-3    |      |
| Dibromochloromethane                 | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 124-48-1   |      |
| 1,2-Dichlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 95-50-1    |      |
| 1,3-Dichlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 541-73-1   |      |
| 1,4-Dichlorobenzene                  | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 106-46-7   |      |
| Dichlorodifluoromethane              | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-71-8    | v3   |
| 1,1-Dichloroethane                   | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-34-3    |      |
| 1,2-Dichloroethane                   | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 107-06-2   |      |
| 1,1-Dichloroethene                   | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-35-4    |      |
| cis-1,2-Dichloroethene               | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 156-59-2   |      |
| trans-1,2-Dichloroethene             | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 156-60-5   |      |
| 1,2-Dichloropropane                  | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 78-87-5    |      |
| cis-1,3-Dichloropropene              | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 10061-01-5 |      |
| trans-1,3-Dichloropropene            | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 10061-02-6 |      |
| Ethylbenzene                         | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 100-41-4   |      |
| Methylene Chloride                   | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-09-2    |      |
| 1,1,2,2-Tetrachloroethane            | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 79-34-5    |      |
| Tetrachloroethene                    | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 127-18-4   |      |
| Toluene                              | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 108-88-3   |      |
| 1,1,1-Trichloroethane                | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 71-55-6    |      |
| 1,1,2-Trichloroethane                | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 79-00-5    |      |
| Trichloroethene                      | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 79-01-6    |      |
| Trichlorofluoromethane               | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-69-4    |      |
| Vinyl chloride                       | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 75-01-4    |      |
| Xylene (Total)                       | <1.0    | ug/L                                                                                              | 1.0                       | 1                        |                | 05/27/22 21:59 | 1330-20-7  |      |
| <b>Surrogates</b>                    |         |                                                                                                   |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)             | 107     | %                                                                                                 | 80-110                    | 1                        |                | 05/27/22 21:59 | 460-00-4   |      |
| Toluene-d8 (S)                       | 98      | %                                                                                                 | 87-120                    | 1                        |                | 05/27/22 21:59 | 2037-26-5  |      |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: SW-7                   |         | Lab ID: 70216287008                                                       |              | Collected: 05/27/22 10:50 |          | Received: 05/27/22 11:45 |            | Matrix: Water |  |
|--------------------------------|---------|---------------------------------------------------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                     | Results | Units                                                                     | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 624.1 Volatile Organics        |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Surrogates                     |         |                                                                           |              |                           |          |                          |            |               |  |
| 1,2-Dichloroethane-d4 (S)      | 92      | %                                                                         | 76-127       | 1                         |          | 05/27/22 21:59           | 17060-07-0 |               |  |
| 2320B Alkalinity               |         | Analytical Method: SM22 2320B<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Alkalinity, Total as CaCO3     | 92.4    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:57           |            |               |  |
| Alkalinity,Bicarbonate (CaCO3) | 92.4    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:57           |            |               |  |
| Alkalinity,Carbonate (CaCO3)   | <1.0    | mg/L                                                                      | 1.0          | 1                         |          | 06/02/22 13:57           |            |               |  |
| 2540C Total Dissolved Solids   |         | Analytical Method: SM22 2540C<br>Pace Analytical Services - Melville      |              |                           |          |                          |            |               |  |
| Total Dissolved Solids         | 17500   | mg/L                                                                      | 100          | 1                         |          | 06/03/22 13:46           |            |               |  |
| 300.0 IC Anions 28 Days        |         | Analytical Method: EPA 300.0<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Chloride                       | 14600   | mg/L                                                                      | 400          | 200                       |          | 06/03/22 20:46           | 16887-00-6 |               |  |
| Sulfate                        | 1990    | mg/L                                                                      | 100          | 20                        |          | 06/03/22 20:32           | 14808-79-8 |               |  |
| 353.2 Nitrogen, NO2/NO3 pres.  |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrate as N                   | 0.037J  | mg/L                                                                      | 0.050        | 1                         |          | 05/31/22 12:22           | 14797-55-8 |               |  |
| Nitrate-Nitrite (as N)         | 0.037J  | mg/L                                                                      | 0.050        | 1                         |          | 05/31/22 12:22           | 7727-37-9  |               |  |
| 353.2 Nitrogen, NO2            |         | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville       |              |                           |          |                          |            |               |  |
| Nitrite as N                   | <0.050  | mg/L                                                                      | 0.050        | 1                         |          | 05/27/22 23:32           | 14797-65-0 |               |  |
| 4500 Ammonia Water             |         | Analytical Method: SM22 4500 NH3 H<br>Pace Analytical Services - Melville |              |                           |          |                          |            |               |  |
| Nitrogen, Ammonia              | <0.10   | mg/L                                                                      | 0.10         | 1                         |          | 06/01/22 12:15           | 7664-41-7  |               |  |

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## ANALYTICAL RESULTS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Sample: STORAGE BLANK          |         | Lab ID: 70216287009                                                 | Collected: 05/27/22 00:00 | Received: 05/27/22 11:45 | Matrix: Water |                |            |      |
|--------------------------------|---------|---------------------------------------------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                     | Results | Units                                                               | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>624.1 Volatile Organics</b> |         | Analytical Method: EPA 624.1<br>Pace Analytical Services - Melville |                           |                          |               |                |            |      |
| Benzene                        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 71-43-2    |      |
| Bromodichloromethane           | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-27-4    |      |
| Bromoform                      | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-25-2    |      |
| Bromomethane                   | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 74-83-9    |      |
| Carbon tetrachloride           | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 56-23-5    |      |
| Chlorobenzene                  | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 108-90-7   |      |
| Chloroethane                   | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-00-3    |      |
| 2-Chloroethylvinyl ether       | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 110-75-8   |      |
| Chloroform                     | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 67-66-3    |      |
| Chloromethane                  | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 74-87-3    |      |
| Dibromochloromethane           | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 124-48-1   |      |
| 1,2-Dichlorobenzene            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 106-46-7   |      |
| Dichlorodifluoromethane        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-71-8    |      |
| 1,1-Dichloroethane             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-34-3    |      |
| 1,2-Dichloroethane             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 107-06-2   |      |
| 1,1-Dichloroethene             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 156-60-5   |      |
| 1,2-Dichloropropane            | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 10061-02-6 |      |
| Ethylbenzene                   | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 100-41-4   |      |
| Methylene Chloride             | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-09-2    |      |
| 1,1,2,2-Tetrachloroethane      | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 79-34-5    |      |
| Tetrachloroethene              | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 127-18-4   |      |
| Toluene                        | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 108-88-3   |      |
| 1,1,1-Trichloroethane          | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 79-00-5    |      |
| Trichloroethene                | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 79-01-6    |      |
| Trichlorofluoromethane         | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-69-4    |      |
| Vinyl chloride                 | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 75-01-4    |      |
| Xylene (Total)                 | <1.0    | ug/L                                                                | 1.0                       | 1                        |               | 05/31/22 13:37 | 1330-20-7  |      |
| <b>Surrogates</b>              |         |                                                                     |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)       | 106     | %                                                                   | 80-110                    | 1                        |               | 05/31/22 13:37 | 460-00-4   |      |
| Toluene-d8 (S)                 | 96      | %                                                                   | 87-120                    | 1                        |               | 05/31/22 13:37 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)      | 89      | %                                                                   | 76-127                    | 1                        |               | 05/31/22 13:37 | 17060-07-0 |      |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258748    | Analysis Method:      | EPA 6010C                           |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6010 MET Water                      |
|                  |           | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

METHOD BLANK: 1306071

Matrix: Water

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Calcium   | ug/L  | <200         | 200             | 05/31/22 18:32 |            |
| Magnesium | ug/L  | <200         | 200             | 05/31/22 18:32 |            |

LABORATORY CONTROL SAMPLE: 1306072

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium   | ug/L  | 25000       | 25200      | 101       | 80-120       |            |
| Magnesium | ug/L  | 25000       | 24700      | 99        | 80-120       |            |

MATRIX SPIKE SAMPLE: 1306074

| Parameter | Units | 30487168001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Calcium   | ug/L  | 17200              | 12500       | 30300     | 105      | 75-125       |            |
| Magnesium | ug/L  | 5470               | 12500       | 18500     | 104      | 75-125       |            |

SAMPLE DUPLICATE: 1306073

| Parameter | Units | 30487168001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Calcium   | ug/L  | 17200              | 17200      | 0   |            |
| Magnesium | ug/L  | 5470               | 5500       | 1   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                         |                                                                                                        |                       |                                     |
|-------------------------|--------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|
| QC Batch:               | 258591                                                                                                 | Analysis Method:      | EPA 624.1                           |
| QC Batch Method:        | EPA 624.1                                                                                              | Analysis Description: | 624.1 MSV                           |
|                         |                                                                                                        | Laboratory:           | Pace Analytical Services - Melville |
| Associated Lab Samples: | 70216287001, 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008 |                       |                                     |

METHOD BLANK: 1305338

Matrix: Water

Associated Lab Samples: 70216287001, 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1,2-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,1-Dichloroethene        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichloropropane       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,3-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,4-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 2-Chloroethylvinyl ether  | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Benzene                   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Bromodichloromethane      | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Bromoform                 | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Bromomethane              | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Carbon tetrachloride      | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chlorobenzene             | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chloroethane              | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chloroform                | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Chloromethane             | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| cis-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| cis-1,3-Dichloropropene   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Dibromochloromethane      | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Dichlorodifluoromethane   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 | v3         |
| Ethylbenzene              | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Methylene Chloride        | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Tetrachloroethene         | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Toluene                   | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| trans-1,3-Dichloropropene | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Trichloroethene           | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Trichlorofluoromethane    | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Vinyl chloride            | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| Xylene (Total)            | ug/L  | <1.0         | 1.0             | 05/27/22 16:13 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 89           | 76-127          | 05/27/22 16:13 |            |
| 4-Bromofluorobenzene (S)  | %     | 106          | 80-110          | 05/27/22 16:13 |            |
| Toluene-d8 (S)            | %     | 97           | 87-120          | 05/27/22 16:13 |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

LABORATORY CONTROL SAMPLE: 1305339

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 18.1       | 90        | 70-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 16.6       | 83        | 60-140       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 18.1       | 90        | 70-130       |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 20.2       | 101       | 70-130       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 18.4       | 92        | 70-130       |            |
| 1,2-Dichlorobenzene       | ug/L  | 20          | 16.9       | 85        | 65-135       |            |
| 1,2-Dichloroethane        | ug/L  | 20          | 17.2       | 86        | 70-130       |            |
| 1,2-Dichloropropane       | ug/L  | 20          | 21.0       | 105       | 35-165       |            |
| 1,3-Dichlorobenzene       | ug/L  | 20          | 17.3       | 86        | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 20          | 16.9       | 85        | 65-135       |            |
| 2-Chloroethylvinyl ether  | ug/L  | 20          | 7.6        | 38        | 10-225       |            |
| Benzene                   | ug/L  | 20          | 20.2       | 101       | 65-135       |            |
| Bromodichloromethane      | ug/L  | 20          | 18.6       | 93        | 65-135       |            |
| Bromoform                 | ug/L  | 20          | 17.8       | 89        | 70-130       |            |
| Bromomethane              | ug/L  | 20          | 16.8       | 84        | 15-185       |            |
| Carbon tetrachloride      | ug/L  | 20          | 19.6       | 98        | 70-130       |            |
| Chlorobenzene             | ug/L  | 20          | 18.6       | 93        | 65-135       |            |
| Chloroethane              | ug/L  | 20          | 19.1       | 96        | 40-160       |            |
| Chloroform                | ug/L  | 20          | 18.7       | 93        | 70-135       |            |
| Chloromethane             | ug/L  | 20          | 19.8       | 99        | 10-205       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 19.2       | 96        | 77-121       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 20.0       | 100       | 25-175       |            |
| Dibromochloromethane      | ug/L  | 20          | 18.0       | 90        | 70-135       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 12.1       | 60        | 10-131 v3    |            |
| Ethylbenzene              | ug/L  | 20          | 17.8       | 89        | 60-140       |            |
| Methylene Chloride        | ug/L  | 20          | 16.6       | 83        | 60-140       |            |
| Tetrachloroethene         | ug/L  | 20          | 17.5       | 87        | 65-135       |            |
| Toluene                   | ug/L  | 20          | 20.0       | 100       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 19.3       | 97        | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 19.5       | 98        | 50-150       |            |
| Trichloroethene           | ug/L  | 20          | 20.0       | 100       | 65-135       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 16.7       | 84        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 18.3       | 91        | 5-195        |            |
| Xylene (Total)            | ug/L  | 60          | 55.2       | 92        | 77-121       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 90        | 76-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 109       | 80-110       |            |
| Toluene-d8 (S)            | %     |             |            | 97        | 87-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1305612 1305613

| Parameter                 | Units | 70216204001 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              | 24.0      | 22.6       | 120      | 113       | 70-130       | 6   |      |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0               | 20             | 20              | 20.9      | 20.9       | 104      | 105       | 60-140       | 0   |      |
| 1,1,2-Trichloroethane     | ug/L  | <1.0               | 20             | 20              | 21.1      | 21.9       | 106      | 110       | 70-130       | 4   |      |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1305612 1305613 |       |             |       |       |       |        |        |       |       |        |      |
|--------------------------------------------------------|-------|-------------|-------|-------|-------|--------|--------|-------|-------|--------|------|
| Parameter                                              | Units | 70216204001 |       | MS    | MSD   | MS     |        | MSD   | % Rec |        | Qual |
|                                                        |       | Result      | Conc. | Spike | Spike | Result | Result | % Rec | % Rec | Limits |      |
| 1,1-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20    | 20    | 26.1   | 25.1   | 131   | 126   | 70-130 | 4 M1 |
| 1,1-Dichloroethene                                     | ug/L  | <1.0        | 20    | 20    | 20    | 26.4   | 24.2   | 132   | 121   | 70-130 | 9 M1 |
| 1,2-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 20.5   | 20.7   | 102   | 103   | 65-135 | 1    |
| 1,2-Dichloroethane                                     | ug/L  | <1.0        | 20    | 20    | 20    | 21.2   | 20.3   | 106   | 102   | 70-130 | 4    |
| 1,2-Dichloropropane                                    | ug/L  | <1.0        | 20    | 20    | 20    | 25.9   | 25.3   | 129   | 127   | 35-165 | 2    |
| 1,3-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 21.2   | 21.0   | 106   | 105   | 70-130 | 1    |
| 1,4-Dichlorobenzene                                    | ug/L  | <1.0        | 20    | 20    | 20    | 20.6   | 20.9   | 103   | 104   | 65-135 | 1    |
| Benzene                                                | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 25.2   | 126   | 126   | 65-135 | 0    |
| Bromodichloromethane                                   | ug/L  | <1.0        | 20    | 20    | 20    | 22.8   | 22.0   | 114   | 110   | 65-135 | 3    |
| Bromoform                                              | ug/L  | <1.0        | 20    | 20    | 20    | 19.9   | 20.4   | 99    | 102   | 70-130 | 3    |
| Bromomethane                                           | ug/L  | <1.0        | 20    | 20    | 20    | 23.5   | 22.9   | 118   | 115   | 15-185 | 3    |
| Carbon tetrachloride                                   | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 24.9   | 127   | 124   | 70-130 | 2    |
| Chlorobenzene                                          | ug/L  | <1.0        | 20    | 20    | 20    | 22.9   | 22.8   | 115   | 114   | 65-135 | 1    |
| Chloroethane                                           | ug/L  | <1.0        | 20    | 20    | 20    | 27.5   | 26.2   | 137   | 131   | 40-160 | 5    |
| Chloroform                                             | ug/L  | <1.0        | 20    | 20    | 20    | 23.8   | 22.4   | 119   | 112   | 70-135 | 6    |
| Chloromethane                                          | ug/L  | <1.0        | 20    | 20    | 20    | 31.7   | 31.0   | 158   | 155   | 10-205 | 2    |
| cis-1,2-Dichloroethene                                 | ug/L  | <1.0        | 20    | 20    | 20    | 24.1   | 23.2   | 120   | 116   | 66-136 | 4    |
| cis-1,3-Dichloropropene                                | ug/L  | <1.0        | 20    | 20    | 20    | 23.6   | 23.5   | 118   | 117   | 25-175 | 1    |
| Dibromochloromethane                                   | ug/L  | <1.0        | 20    | 20    | 20    | 21.2   | 21.1   | 106   | 106   | 70-135 | 0    |
| Dichlorodifluoromethane                                | ug/L  | <1.0        | 20    | 20    | 20    | 23.9   | 22.0   | 119   | 110   | 10-146 | 8 v3 |
| Ethylbenzene                                           | ug/L  | <1.0        | 20    | 20    | 20    | 22.1   | 21.8   | 111   | 109   | 60-140 | 2    |
| Methylene Chloride                                     | ug/L  | <1.0        | 20    | 20    | 20    | 21.0   | 20.2   | 105   | 101   | 60-140 | 3    |
| Tetrachloroethene                                      | ug/L  | <1.0        | 20    | 20    | 20    | 21.7   | 21.6   | 109   | 108   | 65-135 | 1    |
| Toluene                                                | ug/L  | <1.0        | 20    | 20    | 20    | 24.8   | 24.5   | 124   | 122   | 70-130 | 1    |
| trans-1,2-Dichloroethene                               | ug/L  | <1.0        | 20    | 20    | 20    | 25.9   | 24.3   | 130   | 121   | 70-130 | 6    |
| trans-1,3-Dichloropropene                              | ug/L  | <1.0        | 20    | 20    | 20    | 22.4   | 22.6   | 112   | 113   | 50-150 | 1    |
| Trichloroethene                                        | ug/L  | <1.0        | 20    | 20    | 20    | 25.3   | 24.7   | 127   | 123   | 65-135 | 2    |
| Trichlorofluoromethane                                 | ug/L  | <1.0        | 20    | 20    | 20    | 24.3   | 22.8   | 122   | 114   | 50-150 | 7    |
| Vinyl chloride                                         | ug/L  | <1.0        | 20    | 20    | 20    | 29.7   | 27.5   | 149   | 138   | 5-195  | 8    |
| Xylene (Total)                                         | ug/L  | <1.0        | 60    | 60    | 60    | 66.3   | 66.3   | 111   | 110   | 72-141 | 0    |
| 1,2-Dichloroethane-d4 (S)                              | %     |             |       |       |       |        |        | 87    | 90    | 76-127 |      |
| 4-Bromofluorobenzene (S)                               | %     |             |       |       |       |        |        | 108   | 109   | 80-110 |      |
| Toluene-d8 (S)                                         | %     |             |       |       |       |        |        | 96    | 97    | 87-120 |      |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

QC Batch: 258755

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70216287009

METHOD BLANK: 1306106

Matrix: Water

Associated Lab Samples: 70216287009

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,1,2-Trichloroethane     | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,1-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,1-Dichloroethene        | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,2-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,2-Dichloroethane        | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,2-Dichloropropane       | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,3-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,4-Dichlorobenzene       | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 2-Chloroethylvinyl ether  | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Benzene                   | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Bromodichloromethane      | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Bromoform                 | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Bromomethane              | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Carbon tetrachloride      | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Chlorobenzene             | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Chloroethane              | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Chloroform                | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Chloromethane             | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| cis-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| cis-1,3-Dichloropropene   | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Dibromochloromethane      | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Dichlorodifluoromethane   | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Ethylbenzene              | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Methylene Chloride        | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Tetrachloroethene         | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Toluene                   | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| trans-1,3-Dichloropropene | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Trichloroethene           | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Trichlorofluoromethane    | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Vinyl chloride            | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| Xylene (Total)            | ug/L  | <1.0         | 1.0             | 05/31/22 11:53 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 91           | 76-127          | 05/31/22 11:53 |            |
| 4-Bromofluorobenzene (S)  | %     | 106          | 80-110          | 05/31/22 11:53 |            |
| Toluene-d8 (S)            | %     | 95           | 87-120          | 05/31/22 11:53 |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

LABORATORY CONTROL SAMPLE: 1306107

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/L  | 20          | 19.0       | 95        | 70-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 19.9       | 100       | 60-140       |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 22.0       | 110       | 70-130       |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 23.1       | 115       | 70-130       |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 19.8       | 99        | 70-130       |            |
| 1,2-Dichlorobenzene       | ug/L  | 20          | 19.5       | 98        | 65-135       |            |
| 1,2-Dichloroethane        | ug/L  | 20          | 21.6       | 108       | 70-130       |            |
| 1,2-Dichloropropane       | ug/L  | 20          | 24.5       | 122       | 35-165       |            |
| 1,3-Dichlorobenzene       | ug/L  | 20          | 19.8       | 99        | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 20          | 19.4       | 97        | 65-135       |            |
| 2-Chloroethylvinyl ether  | ug/L  | 20          | 10.2       | 51        | 10-225       |            |
| Benzene                   | ug/L  | 20          | 22.3       | 111       | 65-135       |            |
| Bromodichloromethane      | ug/L  | 20          | 21.8       | 109       | 65-135       |            |
| Bromoform                 | ug/L  | 20          | 21.8       | 109       | 70-130       |            |
| Bromomethane              | ug/L  | 20          | 21.5       | 107       | 15-185       |            |
| Carbon tetrachloride      | ug/L  | 20          | 19.9       | 100       | 70-130       |            |
| Chlorobenzene             | ug/L  | 20          | 21.6       | 108       | 65-135       |            |
| Chloroethane              | ug/L  | 20          | 22.1       | 111       | 40-160       |            |
| Chloroform                | ug/L  | 20          | 21.9       | 109       | 70-135       |            |
| Chloromethane             | ug/L  | 20          | 25.5       | 128       | 10-205       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 22.8       | 114       | 77-121       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 23.5       | 117       | 25-175       |            |
| Dibromochloromethane      | ug/L  | 20          | 21.7       | 108       | 70-135       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 15.6       | 78        | 10-131       |            |
| Ethylbenzene              | ug/L  | 20          | 19.8       | 99        | 60-140       |            |
| Methylene Chloride        | ug/L  | 20          | 18.1       | 91        | 60-140       |            |
| Tetrachloroethene         | ug/L  | 20          | 18.3       | 91        | 65-135       |            |
| Toluene                   | ug/L  | 20          | 22.0       | 110       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 20.4       | 102       | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 23.0       | 115       | 50-150       |            |
| Trichloroethene           | ug/L  | 20          | 21.6       | 108       | 65-135       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 18.6       | 93        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 21.8       | 109       | 5-195        |            |
| Xylene (Total)            | ug/L  | 60          | 61.0       | 102       | 77-121       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 89        | 76-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 110       | 80-110       |            |
| Toluene-d8 (S)            | %     |             |            | 95        | 87-120       |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |            |                       |                                     |
|------------------|------------|-----------------------|-------------------------------------|
| QC Batch:        | 259040     | Analysis Method:      | SM22 2320B                          |
| QC Batch Method: | SM22 2320B | Analysis Description: | 2320B Alkalinity                    |
|                  |            | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70216287002, 70216287003

METHOD BLANK: 1307567 Matrix: Water

Associated Lab Samples: 70216287002, 70216287003

| Parameter                                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0         | 1.0             | 06/02/22 09:25 |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0         | 1.0             | 06/02/22 09:25 |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0         | 1.0             | 06/02/22 09:25 |            |

LABORATORY CONTROL SAMPLE: 1307568

| Parameter                                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 25          | 22.5       | 90        | 85-115       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  |             | 3.8        |           |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | 25          | 18.7       | 75        | 85-115       | L2         |

MATRIX SPIKE SAMPLE: 1307570

| Parameter                                   | Units | 70215880003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 260                | 50          | 308       | 95       | 75-125       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 260                |             | 308       |          |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | 50          | <1.0      | 0        | 75-125       | M0         |

SAMPLE DUPLICATE: 1307569

| Parameter                                   | Units | 70215880003 Result | Dup Result | RPD | Qualifiers |
|---------------------------------------------|-------|--------------------|------------|-----|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 260                | 261        | 0   |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 260                | 261        | 0   |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | <1.0       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |            |                       |                                     |
|------------------|------------|-----------------------|-------------------------------------|
| QC Batch:        | 259108     | Analysis Method:      | SM22 2320B                          |
| QC Batch Method: | SM22 2320B | Analysis Description: | 2320B Alkalinity                    |
|                  |            | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

METHOD BLANK: 1307737

Matrix: Water

Associated Lab Samples: 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter                                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | <1.0         | 1.0             | 06/02/22 13:13 |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | <1.0         | 1.0             | 06/02/22 13:13 |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0         | 1.0             | 06/02/22 13:13 |            |

LABORATORY CONTROL SAMPLE: 1307738

| Parameter                                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 25          | 23.6       | 94        | 85-115       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  |             | 1.9        |           |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | 25          | 21.7       | 87        | 85-115       |            |

MATRIX SPIKE SAMPLE: 1307740

| Parameter                                   | Units | 70215903001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 4.2                | 50          | 53.4      | 99       | 75-125       |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 4.2                |             | 31.0      |          |              |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | 50          | 22.4      | 45       | 75-125       | M1         |

SAMPLE DUPLICATE: 1307739

| Parameter                                   | Units | 70215903001 Result | Dup Result | RPD | Qualifiers |
|---------------------------------------------|-------|--------------------|------------|-----|------------|
| Alkalinity, Total as CaCO <sub>3</sub>      | mg/L  | 4.2                | 4.2        | 2   |            |
| Alkalinity,Bicarbonate (CaCO <sub>3</sub> ) | mg/L  | 4.2                | 4.2        | 2   |            |
| Alkalinity,Carbonate (CaCO <sub>3</sub> )   | mg/L  | <1.0               | <1.0       |     |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |            |                       |                                     |
|------------------|------------|-----------------------|-------------------------------------|
| QC Batch:        | 259228     | Analysis Method:      | SM22 2540C                          |
| QC Batch Method: | SM22 2540C | Analysis Description: | 2540C Total Dissolved Solids        |
|                  |            | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

|               |         |         |       |
|---------------|---------|---------|-------|
| METHOD BLANK: | 1308474 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Dissolved Solids | mg/L  | <10.0        | 10.0            | 06/03/22 13:14 |            |

LABORATORY CONTROL SAMPLE: 1308475

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 500         | 438        | 88        | 85-115       |            |

MATRIX SPIKE SAMPLE: 1308477

| Parameter              | Units | 70216390001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 622                | 300         | 928       | 102      | 75-125       | H1         |

MATRIX SPIKE SAMPLE: 1308479

| Parameter              | Units | 70216390003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Total Dissolved Solids | mg/L  | 269                | 300         | 575       | 102      | 75-125       | H1         |

SAMPLE DUPLICATE: 1308476

| Parameter              | Units | 70216390001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 622                | 609        | 2   | H1         |

SAMPLE DUPLICATE: 1308478

| Parameter              | Units | 70216390003 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Total Dissolved Solids | mg/L  | 269                | 275        | 2   | H1         |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 259106    | 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: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

METHOD BLANK: 1307728

Matrix: Water

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | 0.11J        | 2.0             | 06/02/22 18:58 |            |
| Sulfate   | mg/L  | <5.0         | 5.0             | 06/02/22 18:58 |            |

LABORATORY CONTROL SAMPLE: 1307729

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 10          | 10.3       | 103       | 90-110       |            |
| Sulfate   | mg/L  | 10          | 10.3       | 103       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1307730

| Parameter | Units | 70215880003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 107                | 10          | 117       | 102      | 90-110       |            |
| Sulfate   | mg/L  | 14.5               | 10          | 25.1      | 106      | 90-110       |            |

MATRIX SPIKE SAMPLE: 1307732

| Parameter | Units | 70215903001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride  | mg/L  | 109                | 10          | 118       | 90       | 90-110       |            |
| Sulfate   | mg/L  | 18.7               | 10          | 28.1      | 94       | 90-110       |            |

SAMPLE DUPLICATE: 1307731

| Parameter | Units | 70215880003 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 107                | 107        | 0   |            |
| Sulfate   | mg/L  | 14.5               | 14.4       | 0   |            |

SAMPLE DUPLICATE: 1307733

| Parameter | Units | 70215903001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Chloride  | mg/L  | 109                | 110        | 0   |            |
| Sulfate   | mg/L  | 18.7               | 18.7       | 0   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258613    | 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: 70216287005

METHOD BLANK: 1305592 Matrix: Water

Associated Lab Samples: 70216287005

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/27/22 22:38 |            |

LABORATORY CONTROL SAMPLE: 1305593

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 1.1        | 105       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305594

| Parameter    | Units | 70216215001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | <0.050             | 0.5         | 0.28      | 55       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305596

| Parameter    | Units | 70216294004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | 0.12               | 0.5         | 0.60      | 96       | 90-110       |            |

SAMPLE DUPLICATE: 1305595

| Parameter    | Units | 70216215001 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | <0.050     |     |            |

SAMPLE DUPLICATE: 1305597

| Parameter    | Units | 70216294004 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | 0.12               | 0.12       | 3   |            |

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258614    | 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: 70216287002, 70216287003, 70216287004, 70216287006, 70216287007, 70216287008

METHOD BLANK: 1305598

Matrix: Water

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287006, 70216287007, 70216287008

| Parameter    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------|-------|--------------|-----------------|----------------|------------|
| Nitrite as N | mg/L  | <0.050       | 0.050           | 05/27/22 23:14 |            |

LABORATORY CONTROL SAMPLE: 1305599

| Parameter    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrite as N | mg/L  | 1           | 1.0        | 105       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305600

| Parameter    | Units | 70216287002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | 0.088              | 0.5         | 0.43      | 69       | 90-110       | M1         |

MATRIX SPIKE SAMPLE: 1305602

| Parameter    | Units | 70216290011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrite as N | mg/L  | <0.050             | 0.5         | 0.48      | 87       | 90-110       | M1         |

SAMPLE DUPLICATE: 1305601

| Parameter    | Units | 70216287002 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | 0.088              | 0.090      | 2   |            |

SAMPLE DUPLICATE: 1305603

| Parameter    | Units | 70216290011 Result | Dup Result | RPD | Qualifiers |
|--------------|-------|--------------------|------------|-----|------------|
| Nitrite as N | mg/L  | <0.050             | 0.047J     |     |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |           |                       |                                     |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch:        | 258699    | 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: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

|               |         |         |       |
|---------------|---------|---------|-------|
| METHOD BLANK: | 1305943 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050       | 0.050           | 05/31/22 11:56 |            |

LABORATORY CONTROL SAMPLE: 1305944

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 1           | 1.1        | 109       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305945

| Parameter              | Units | 70216290001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050             | 0.5         | 0.49      | 98       | 90-110       |            |

MATRIX SPIKE SAMPLE: 1305947

| Parameter              | Units | 70216287006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrate-Nitrite (as N) | mg/L  | 1.6                | 1           | 2.1       | 53       | 90-110       | M1         |

SAMPLE DUPLICATE: 1305946

| Parameter              | Units | 70216290001 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | <0.050             | <0.050     |     |            |

SAMPLE DUPLICATE: 1305948

| Parameter              | Units | 70216287006 Result | Dup Result | RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|------------|
| Nitrate-Nitrite (as N) | mg/L  | 1.6                | 1.5        | 5   |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

|                  |                 |                       |                                     |
|------------------|-----------------|-----------------------|-------------------------------------|
| QC Batch:        | 258862          | 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: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

METHOD BLANK: 1306568 Matrix: Water

Associated Lab Samples: 70216287002, 70216287003, 70216287004, 70216287005, 70216287006, 70216287007, 70216287008

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.10        | 0.10            | 06/01/22 11:41 |            |

LABORATORY CONTROL SAMPLE: 1306569

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 1           | 0.96       | 96        | 90-110       |            |

MATRIX SPIKE SAMPLE: 1306570

| Parameter         | Units | 70216270001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 26.3               | 10          | 34.6      | 83       | 75-125       |            |

SAMPLE DUPLICATE: 1306571

| Parameter         | Units | 70216270001 Result | Dup Result | RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|------------|
| Nitrogen, Ammonia | mg/L  | 26.3               | 25.2       | 4   |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

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.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Lab ID      | Sample ID     | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 70216287002 | SW-1          | SM22 2340B      | 259497   |                   |                  |
| 70216287003 | SW-2          | SM22 2340B      | 259497   |                   |                  |
| 70216287004 | SW-3          | SM22 2340B      | 259497   |                   |                  |
| 70216287005 | SW-4          | SM22 2340B      | 259497   |                   |                  |
| 70216287006 | SW-5          | SM22 2340B      | 259497   |                   |                  |
| 70216287007 | SW-6          | SM22 2340B      | 259497   |                   |                  |
| 70216287008 | SW-7          | SM22 2340B      | 259497   |                   |                  |
| 70216287002 | SW-1          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287003 | SW-2          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287004 | SW-3          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287005 | SW-4          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287006 | SW-5          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287007 | SW-6          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287008 | SW-7          | EPA 3005A       | 258748   | EPA 6010C         | 258757           |
| 70216287001 | TRIP BLANK    | EPA 624.1       | 258591   |                   |                  |
| 70216287002 | SW-1          | EPA 624.1       | 258591   |                   |                  |
| 70216287003 | SW-2          | EPA 624.1       | 258591   |                   |                  |
| 70216287004 | SW-3          | EPA 624.1       | 258591   |                   |                  |
| 70216287005 | SW-4          | EPA 624.1       | 258591   |                   |                  |
| 70216287006 | SW-5          | EPA 624.1       | 258591   |                   |                  |
| 70216287007 | SW-6          | EPA 624.1       | 258591   |                   |                  |
| 70216287008 | SW-7          | EPA 624.1       | 258591   |                   |                  |
| 70216287009 | STORAGE BLANK | EPA 624.1       | 258755   |                   |                  |
| 70216287002 | SW-1          | SM22 2320B      | 259040   |                   |                  |
| 70216287003 | SW-2          | SM22 2320B      | 259040   |                   |                  |
| 70216287004 | SW-3          | SM22 2320B      | 259108   |                   |                  |
| 70216287005 | SW-4          | SM22 2320B      | 259108   |                   |                  |
| 70216287006 | SW-5          | SM22 2320B      | 259108   |                   |                  |
| 70216287007 | SW-6          | SM22 2320B      | 259108   |                   |                  |
| 70216287008 | SW-7          | SM22 2320B      | 259108   |                   |                  |
| 70216287002 | SW-1          | SM22 2540C      | 259228   |                   |                  |
| 70216287003 | SW-2          | SM22 2540C      | 259228   |                   |                  |
| 70216287004 | SW-3          | SM22 2540C      | 259228   |                   |                  |
| 70216287005 | SW-4          | SM22 2540C      | 259228   |                   |                  |
| 70216287006 | SW-5          | SM22 2540C      | 259228   |                   |                  |
| 70216287007 | SW-6          | SM22 2540C      | 259228   |                   |                  |
| 70216287008 | SW-7          | SM22 2540C      | 259228   |                   |                  |
| 70216287002 | SW-1          | EPA 300.0       | 259106   |                   |                  |
| 70216287003 | SW-2          | EPA 300.0       | 259106   |                   |                  |
| 70216287004 | SW-3          | EPA 300.0       | 259106   |                   |                  |
| 70216287005 | SW-4          | EPA 300.0       | 259106   |                   |                  |
| 70216287006 | SW-5          | EPA 300.0       | 259106   |                   |                  |
| 70216287007 | SW-6          | EPA 300.0       | 259106   |                   |                  |
| 70216287008 | SW-7          | EPA 300.0       | 259106   |                   |                  |
| 70216287002 | SW-1          | EPA 353.2       | 258699   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EAST NORTHPORT SURFACE WATERS

Pace Project No.: 70216287

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 70216287003 | SW-2      | EPA 353.2       | 258699   |                   |                  |
| 70216287004 | SW-3      | EPA 353.2       | 258699   |                   |                  |
| 70216287005 | SW-4      | EPA 353.2       | 258699   |                   |                  |
| 70216287006 | SW-5      | EPA 353.2       | 258699   |                   |                  |
| 70216287007 | SW-6      | EPA 353.2       | 258699   |                   |                  |
| 70216287008 | SW-7      | EPA 353.2       | 258699   |                   |                  |
| 70216287002 | SW-1      | EPA 353.2       | 258614   |                   |                  |
| 70216287003 | SW-2      | EPA 353.2       | 258614   |                   |                  |
| 70216287004 | SW-3      | EPA 353.2       | 258614   |                   |                  |
| 70216287005 | SW-4      | EPA 353.2       | 258613   |                   |                  |
| 70216287006 | SW-5      | EPA 353.2       | 258614   |                   |                  |
| 70216287007 | SW-6      | EPA 353.2       | 258614   |                   |                  |
| 70216287008 | SW-7      | EPA 353.2       | 258614   |                   |                  |
| 70216287002 | SW-1      | SM22 4500 NH3 H | 258862   |                   |                  |
| 70216287003 | SW-2      | SM22 4500 NH3 H | 258862   |                   |                  |
| 70216287004 | SW-3      | SM22 4500 NH3 H | 258862   |                   |                  |
| 70216287005 | SW-4      | SM22 4500 NH3 H | 258862   |                   |                  |
| 70216287006 | SW-5      | SM22 4500 NH3 H | 258862   |                   |                  |
| 70216287007 | SW-6      | SM22 4500 NH3 H | 258862   |                   |                  |
| 70216287008 | SW-7      | SM22 4500 NH3 H | 258862   |                   |                  |

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Pace

## CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out and acceptance of the Pace Terms and Conditions found at <https://info.pace.com/terms-conditions>

## Section A

## Section B

## Section B

## Section C

## Section C

## Section C

| Required Client Information: |                          | Required Project Information: |                               | Invoice Information:  |                               |
|------------------------------|--------------------------|-------------------------------|-------------------------------|-----------------------|-------------------------------|
| Company:                     | Dvirka & Bartilucci      | Report To:                    | Keith Robins                  | Attention:            | Giovanna Deloca               |
| Address:                     | 330 Crossways Park Drive | Copy To:                      | LabData@db-eng.com            | Company Name:         | DB Engineering + Analy        |
|                              | Woodbury, NY 11797       |                               |                               | Address:              | 330 Crossways Park Drive      |
| E-mail:                      | krbins@db-eng.com        | Purchase Order #:             | 5624                          | Pace Quote:           |                               |
| Phone:                       | (516) 578-5546           | Project Name:                 | East Northport Surface Waters | Pace Project Manager: | giovanna.deloca@pascalabs.com |
| Requested Due Date:          |                          | Project #:                    | 5624                          | Pace Profile #:       | 5278                          |
|                              |                          |                               |                               | State / Location:     | NY                            |
|                              |                          |                               |                               | Regulatory Agency     |                               |

[illegible][illegible]



Sample Condition Upon Receipt

WO#: 70216287

PM: GFD

Due Date: 06/08/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ OtherThermometer Used: ~~TH091~~ TH188 Correction Factor: + 0.1

Cooler Temperature(°C): 5.8 Cooler Temperature Corrected(°C): 5.9

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: SH 5/27/22

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:                                                                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 1.                                                                                                                                                               |
| Chain of Custody Filled Out:                                                                                                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 2.                                                                                                                                                               |
| Chain of Custody Relinquished:                                                                                                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 3.                                                                                                                                                               |
| Sampler Name & Signature on COC:                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                                                                                                                                                               |
| Samples Arrived within Hold Time:                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.                                                                                                                                                               |
| Short Hold Time Analysis (<72hr):                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 6.                                                                                                                                                               |
| Rush Turn Around Time Requested:                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 7.                                                                                                                                                               |
| Sufficient Volume: (Triple volume provided for I)                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 8.                                                                                                                                                               |
| Correct Containers Used:                                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.                                                                                                                                                               |
| -Pace Containers Used:                                                                                                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |                                                                                                                                                                  |
| Containers Intact:                                                                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.                                                                                                                                                              |
| Filtered volume received for Dissolved tests                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. Note if sediment is visible in the dissolved container.                                                                                                      |
| Sample Labels match COC:                                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 12.                                                                                                                                                              |
| -Includes date/time/ID, Matrix: SL/WT OIL                                                                                                                                  |                                                                                                  |                                                                                                                                                                  |
| All containers needing preservation have been checked?                                                                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl |
| pH paper Lot # HC281827                                                                                                                                                    |                                                                                                  | Sample #                                                                                                                                                         |
| All containers needing preservation are found to be in compliance with method recommendation?                                                                              |                                                                                                  |                                                                                                                                                                  |
| (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                                                                                                  |                                                                                                                                                                  |
| NAOH>12 Cyanide)                                                                                                                                                           |                                                                                                  |                                                                                                                                                                  |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DR0/8015 (water).                                                                                                      |                                                                                                  |                                                                                                                                                                  |
| Per Method, VOA pH is checked after analysis                                                                                                                               |                                                                                                  |                                                                                                                                                                  |
| Samples checked for dechlorination:                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. Positive for Sulfide? Y N                                                                                                                                    |
| Lead Acetate Strips Lot #                                                                                                                                                  |                                                                                                  |                                                                                                                                                                  |
| Headspace in VOA Vials (>6mm):                                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16.                                                                                                                                                              |
| Trip Blank Present:                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 17.                                                                                                                                                              |
| Trip Blank Custody Seals Present                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                                                                                                                                                                  |
| Pace Trip Blank Lot # (if applicable):                                                                                                                                     |                                                                                                  |                                                                                                                                                                  |

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



# Analytical Data Package

**Prepared by:**

**Pace Analytical Services**

**Pace Project No.: 70215927**

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## Subcontracted Data-PACE-CON

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July 19, 2022

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

RE: Project: EAST NORTHPORT GW PFAS/1,4  
Pace Project No.: 70215927

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between May 24, 2022 and May 26, 2022. 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.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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

PFAS samples were subcontracted to Pace Northeast, 39 Spruce St., East Longmeadow, MA 01028

1,4-Dioxane was subcontracted to Eurofins TestAmerica, 10 Hazelwood Dr., Amherst, NY 14228

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Donna Brown, D&B Engineers and Architects, P.C.  
Tom Fox, D&B Engineers and Architects, P.C.  
Robbin Petrella, D&B Engineers and Architects, P.C.



## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project:

Pace Project No.:

---

**Method:**

**Description:**

**Client:**

**Date:**

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

## REPORT OF LABORATORY ANALYSIS

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Pace

# CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL document that constitutes acknowledgment and acceptance of the Pace Terms and Conditions.

ms.pdf

Page: 1 Of 1

## Section A

### Required Client Information:

|                     |                          |                   |                                 |
|---------------------|--------------------------|-------------------|---------------------------------|
| Company:            | Dvirka & Barilucci       | Report To:        | Keith Robins                    |
| Address:            | 330 Crossways Park Drive | Copy To:          |                                 |
| Woodbury, NY 11797  |                          | Purchase Order #: |                                 |
| Email:              | krbins@db-eng.com        | Project Name:     | East Northport PFAS/1,4 Dioxane |
| Phone:              | (516)578-5546            | Project #:        | 5625-Standard                   |
| Requested Due Date: | 5/24/2022                |                   |                                 |

## Section B

### Required Project Information:

|                       |                                    |
|-----------------------|------------------------------------|
| Attention:            | Keith Robins                       |
| Company Name:         | D & B Engineers & Architects PC    |
| Address:              | 330 Crossways Park Drive, Woodbury |
| Pace Project Manager: | giovanna.deloca@pacelabs.com       |
| Pace Profile #:       | 5278                               |

## Section C

### Invoice Information:

|                    |    |
|--------------------|----|
| Regulatory Agency: |    |
| State / Location:  | NY |

| ITEM # | MATRIX | CODE             | COLLECTED         |           | SAMPLE TYPE (G=GRAB C=COMP) | MATRIX CODE (see valid codes to left) | DATE              | TIME      | DATE      | TIME    | ACCEPTED BY / AFFILIATION | DATE      | TIME    | SAMPLE CONDITIONS |
|--------|--------|------------------|-------------------|-----------|-----------------------------|---------------------------------------|-------------------|-----------|-----------|---------|---------------------------|-----------|---------|-------------------|
|        |        |                  | START             | END       |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 1      | EN 1-M | -5/23/2022       | 5/23/2022 5:00pm  | 5/23/2022 | G                           | W                                     | 5/23/2022 5:00pm  | 5/23/2022 | 5/23/2022 | 5:00pm  | Keith Robins              | 5/23/2022 | 5:00pm  | Excellent         |
| 2      | EN 7-M | -5/23/2022       | 5/23/2022 11:50am | 5/23/2022 | G                           | W                                     | 5/23/2022 11:50am | 5/23/2022 | 5/23/2022 | 11:50am | Keith Robins              | 5/23/2022 | 11:50am | Excellent         |
| 3      | EN 7-M | -5/23/2022 (MS)  | 5/23/2022 11:50am | 5/23/2022 | G                           | W                                     | 5/23/2022 11:50am | 5/23/2022 | 5/23/2022 | 11:50am | Keith Robins              | 5/23/2022 | 11:50am | Excellent         |
| 4      | EN 7-M | -5/23/2022 (MSD) | 5/23/2022 11:50am | 5/23/2022 | G                           | W                                     | 5/23/2022 11:50am | 5/23/2022 | 5/23/2022 | 11:50am | Keith Robins              | 5/23/2022 | 11:50am | Excellent         |
| 5      |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 6      |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 7      |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 8      |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 9      |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 10     |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 11     |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |
| 12     |        |                  |                   |           |                             |                                       |                   |           |           |         |                           |           |         |                   |

|                      |                                  |
|----------------------|----------------------------------|
| Additional Comments: | provide Category "B" and EPCIS   |
| Additional Comments: | send data to Lab data@db-eng.com |
| Signature:           | Keith Robins                     |
| Date:                | 5/24/2022                        |
| Temp:                | 13°C                             |

Client Name:

Project

PM: GFD

Due Date: 06/17/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ OtherThermometer Used: ~~TH091~~ TH189 Correction Factor: + 0.1Cooler Temperature (°C): 1.3 Cooler Temperature Corrected (°C): 1.4

Temp should be above freezing to 5.0°C

USDA Regulated Soil ( ☒ N/A, water sample)Temperature Blank Present: ☐ Yes ☒ NoType of Ice: ☒ Wet ☐ Blue ☐ None☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KJ 5/24/22

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



WO#: 70215927

PM: GFD Due Date: 06/07/22

CLIENT: D&B

# CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant file information and conditions found at https://

|                                    |                                               |                                |  |                                                           |  |
|------------------------------------|-----------------------------------------------|--------------------------------|--|-----------------------------------------------------------|--|
| Section A                          |                                               | Section B                      |  | Section C                                                 |  |
| Required Client Information:       |                                               | Required Project Information:  |  | Invoice Information:                                      |  |
| Company: Dvirka & Bartolucci       | Report To: Keith Robins                       | Attention: <i>Keith Robins</i> |  | Company Name: <i>D&amp;B Enterprises &amp; Architects</i> |  |
| Address: 330 Crossways Park Drive  | Copy To:                                      |                                |  | Address: <i>330 Crossways Park Drive, Woodbury</i>        |  |
| Woodbury, NY 11797                 |                                               |                                |  |                                                           |  |
| Email: <i>krobins@db-eng.com</i>   | Purchase Order #:                             |                                |  | Pace Quote:                                               |  |
| Phone: (516) 578-5546              | Project Name: East Northport PFAS/1,4 Dioxane |                                |  | Pace Project Manager: <i>giovanna.deluca@pacelabs.com</i> |  |
| Requested Due Date: <i>5/26/22</i> | Project #: <i>5629 - East Northport</i>       |                                |  | Pace Profile #: 5278                                      |  |
| Regulatory Agency:                 |                                               | State / Location:              |  | NY                                                        |  |

| ITEM # | MATRIX                   | CODE | COLLECTED    |              | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see valid codes to left) | DATE         |              | TIME | DATE         | TIME         | ACCEPTED BY / AFFILIATION | DATE         | TIME         | SAMPLE CONDITIONS |
|--------|--------------------------|------|--------------|--------------|-----------------------------|---------------------------------------|--------------|--------------|------|--------------|--------------|---------------------------|--------------|--------------|-------------------|
|        |                          |      | START        | END          |                             |                                       | DATE         | TIME         |      |              |              |                           |              |              |                   |
| 1      | EN 10 - M-5/2022         | DW   | 5/18/22 2:45 | 5/18/22 5:30 | G                           | WTG                                   | 5/18/22 2:45 | 5/18/22 5:30 | 4    | 5/18/22 2:45 | 5/18/22 5:30 | Unpreserved               | 5/18/22 2:45 | 5/18/22 5:30 |                   |
| 2      | Field Blank - 5/2022     | WT   | 5/18/22 3:00 | 5/18/22 5:30 | G                           | WTG                                   | 5/18/22 3:00 | 5/18/22 5:30 | 4    | 5/18/22 3:00 | 5/18/22 5:30 | Unpreserved               | 5/18/22 3:00 | 5/18/22 5:30 |                   |
| 3      | Blank Duplicate - 5/2022 | WT   | 5/18/22 3:00 | 5/18/22 5:30 | G                           | WTG                                   | 5/18/22 3:00 | 5/18/22 5:30 | 4    | 5/18/22 3:00 | 5/18/22 5:30 | Unpreserved               | 5/18/22 3:00 | 5/18/22 5:30 |                   |
| 4      |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 5      |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 6      |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 7      |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 8      |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 9      |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 10     |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 11     |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |
| 12     |                          |      |              |              |                             |                                       |              |              |      |              |              |                           |              |              |                   |

|                                  |                               |         |      |                           |         |      |                   |
|----------------------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| ADDITIONAL COMMENTS              | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
| Provide Copy to B and Eurus      | Keith Robins / D&B            | 5/26/22 | 0925 | Keith Robins              | 5/26/22 | 0925 |                   |
| Send data to Lab data@db-eng.com | Keith Robins                  | 5/26/22 |      | Keith Robins              | 5/26/22 |      |                   |
|                                  | Keith Robins                  | 5/26/22 |      | Keith Robins              | 5/26/22 |      |                   |
|                                  | Keith Robins                  | 5/26/22 |      | Keith Robins              | 5/26/22 |      |                   |



## Sample Condition Upon Receipt

WO#: 70215927

Client Name:

Project

PM: GFD

Due Date: 06/07/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Ziploc ☐ None ☐ OtherThermometer Used: ~~TH091~~ TH188 Correction Factor: + 0.1

Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.4

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: GH 5/26/22

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

## ANALYTICAL REPORT

Eurofins Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-198416-1  
Client Project/Site: EAST NORTHPORT GW

For:  
Pace Analytical Services, LLC  
575 Broad Hollow Road  
Melville, New York 11747

Attn: Giovanna Deloca



Authorized for release by:

6/3/2022 4:18:13 PM

Rebecca Jones, Project Management Assistant I

[Rebecca.Jones@et.eurofinsus.com](mailto:Rebecca.Jones@et.eurofinsus.com)

Designee for

John Schove, Project Manager II

(716)504-9838

[John.Schove@et.eurofinsus.com](mailto:John.Schove@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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 GW

Job ID: 480-198416-1

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| 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                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |



# Case Narrative

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**Job ID: 480-198416-1**

**Laboratory: Eurofins Buffalo**

## Narrative

**Job Narrative**  
**480-198416-1**

## Comments

No additional comments.

## Receipt

The samples were received on 5/27/2022 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 2.0° 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.

## Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

### Client Sample ID: EN10-M-5/25/2022

Lab Sample ID: 480-198416-1

| 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  |

### Client Sample ID: FIELD BLANK 5/25/2022

Lab Sample ID: 480-198416-2

No Detections.

### Client Sample ID: BLIND DUPLICATE 5/25/2022

Lab Sample ID: 480-198416-3

| Analyte     | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method       | Prep Type |
|-------------|--------|-----------|------|------|------|---------|---|--------------|-----------|
| 1,4-Dioxane | 0.22   |           | 0.20 | 0.10 | ug/L | 1       |   | 8270D SIM ID | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

# Client Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

Client Sample ID: EN10-M-5/25/2022

Lab Sample ID: 480-198416-1

Date Collected: 05/25/22 14:45

Matrix: Water

Date Received: 05/27/22 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 |   | 05/31/22 16:10 | 06/01/22 22:46 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 36        |           | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 22:46 |         |

Client Sample ID: FIELD BLANK 5/25/2022

Lab Sample ID: 480-198416-2

Date Collected: 05/25/22 15:00

Matrix: Water

Date Received: 05/27/22 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 |   | 05/31/22 16:10 | 06/01/22 23:08 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 32        |           | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 23:08 |         |

Client Sample ID: BLIND DUPLICATE 5/25/2022

Lab Sample ID: 480-198416-3

Date Collected: 05/25/22 00:00

Matrix: Water

Date Received: 05/27/22 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      | 0.22      |           | 0.20     | 0.10 | ug/L |   | 05/31/22 16:10 | 06/01/22 23:31 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 34        |           | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 23:31 |         |



# Isotope Dilution Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**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) |  |
| 480-198416-1       | EN10-M-5/25/2022          | 36       |  |
| 480-198416-2       | FIELD BLANK 5/25/2022     | 32       |  |
| 480-198416-3       | BLIND DUPLICATE 5/25/2022 | 34       |  |
| LCS 480-628215/2-A | Lab Control Sample        | 42       |  |
| MB 480-628215/1-A  | Method Blank              | 38       |  |

### Surrogate Legend

DXE = 1,4-Dioxane-d8

# QC Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-628215/1-A

Matrix: Water

Analysis Batch: 628363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628215

| Analyte          | MB<br>Result    | MB<br>Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.20            | U               | 0.20     | 0.10 | ug/L |   | 05/31/22 16:10 | 06/01/22 16:28 | 1       |
| Isotope Dilution | MB<br>%Recovery | MB<br>Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 38              |                 | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 16:28 |         |

Lab Sample ID: LCS 480-628215/2-A

Matrix: Water

Analysis Batch: 628363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628215

| Analyte          | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|------------------|------------------|------------------|------------------|------|---|------|----------------|
| 1,4-Dioxane      | 2.00             | 2.32             |                  | ug/L |   | 116  | 40 - 140       |
| Isotope Dilution | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |      |   |      |                |
| 1,4-Dioxane-d8   | 42               |                  | 15 - 110         |      |   |      |                |

## QC Association Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

### GC/MS Semi VOA

#### Prep Batch: 628215

| Lab Sample ID      | Client Sample ID          | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------|-----------|--------|--------|------------|
| 480-198416-1       | EN10-M-5/25/2022          | Total/NA  | Water  | 3510C  |            |
| 480-198416-2       | FIELD BLANK 5/25/2022     | Total/NA  | Water  | 3510C  |            |
| 480-198416-3       | BLIND DUPLICATE 5/25/2022 | Total/NA  | Water  | 3510C  |            |
| MB 480-628215/1-A  | Method Blank              | Total/NA  | Water  | 3510C  |            |
| LCS 480-628215/2-A | Lab Control Sample        | Total/NA  | Water  | 3510C  |            |

#### Analysis Batch: 628363

| Lab Sample ID      | Client Sample ID          | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|---------------------------|-----------|--------|--------------|------------|
| 480-198416-1       | EN10-M-5/25/2022          | Total/NA  | Water  | 8270D SIM ID | 628215     |
| 480-198416-2       | FIELD BLANK 5/25/2022     | Total/NA  | Water  | 8270D SIM ID | 628215     |
| 480-198416-3       | BLIND DUPLICATE 5/25/2022 | Total/NA  | Water  | 8270D SIM ID | 628215     |
| MB 480-628215/1-A  | Method Blank              | Total/NA  | Water  | 8270D SIM ID | 628215     |
| LCS 480-628215/2-A | Lab Control Sample        | Total/NA  | Water  | 8270D SIM ID | 628215     |

# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**Client Sample ID: EN10-M-5/25/2022**

**Lab Sample ID: 480-198416-1**

**Date Collected: 05/25/22 14:45**

**Matrix: Water**

**Date Received: 05/27/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 628215       | 05/31/22 16:10       | CMC     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID |     | 1               | 628363       | 06/01/22 22:46       | PJQ     | TAL BUF |

**Client Sample ID: FIELD BLANK 5/25/2022**

**Lab Sample ID: 480-198416-2**

**Date Collected: 05/25/22 15:00**

**Matrix: Water**

**Date Received: 05/27/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 628215       | 05/31/22 16:10       | CMC     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID |     | 1               | 628363       | 06/01/22 23:08       | PJQ     | TAL BUF |

**Client Sample ID: BLIND DUPLICATE 5/25/2022**

**Lab Sample ID: 480-198416-3**

**Date Collected: 05/25/22 00:00**

**Matrix: Water**

**Date Received: 05/27/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 628215       | 05/31/22 16:10       | CMC     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID |     | 1               | 628363       | 06/01/22 23:31       | PJQ     | TAL BUF |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

### Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-23        |

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## Method Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

| 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 Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Sample Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

| Lab Sample ID | Client Sample ID          | Matrix | Collected      | Received       |
|---------------|---------------------------|--------|----------------|----------------|
| 480-198416-1  | EN10-M-5/25/2022          | Water  | 05/25/22 14:45 | 05/27/22 10:00 |
| 480-198416-2  | FIELD BLANK 5/25/2022     | Water  | 05/25/22 15:00 | 05/27/22 10:00 |
| 480-198416-3  | BLIND DUPLICATE 5/25/2022 | Water  | 05/25/22 00:00 | 05/27/22 10:00 |





## Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 480-198416-1

**Login Number: 198416**

**List Source: Eurofins Buffalo**

**List Number: 1**

**Creator: Sabuda, Brendan D**

| Question                                                                         | Answer | Comment    |
|----------------------------------------------------------------------------------|--------|------------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |            |
| The cooler's custody seal, if present, is intact.                                | True   |            |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |            |
| Samples were received on ice.                                                    | True   |            |
| Cooler Temperature is acceptable.                                                | True   |            |
| Cooler Temperature is recorded.                                                  | True   | 2.0 #1 ICE |
| COC is present.                                                                  | True   |            |
| COC is filled out in ink and legible.                                            | True   |            |
| COC is filled out with all pertinent information.                                | True   |            |
| Is the Field Sampler's name present on COC?                                      | True   |            |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |            |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |            |
| Sample containers have legible labels.                                           | True   |            |
| Containers are not broken or leaking.                                            | True   |            |
| Sample collection date/times are provided.                                       | True   |            |
| Appropriate sample containers are used.                                          | True   |            |
| Sample bottles are completely filled.                                            | True   |            |
| Sample Preservation Verified                                                     | True   |            |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |            |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |            |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |            |
| Multiphasic samples are not present.                                             | True   |            |
| Samples do not require splitting or compositing.                                 | True   |            |
| Sampling Company provided.                                                       | True   |            |
| Samples received within 48 hours of sampling.                                    | True   |            |
| Samples requiring field filtration have been filtered in the field.              | True   |            |
| Chlorine Residual checked.                                                       | True   |            |

July 19, 2022

Giovanna Deloca  
Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747

Project Location: East Northport GW PFAS  
Client Job Number:  
Project Number: 70215927  
Laboratory Work Order Number: 22E1781

Enclosed are results of analyses for samples as received by the laboratory on May 26, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman  
Project Manager

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Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747  
ATTN: Giovanna Deloca

REPORT DATE: 7/19/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70215927

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 22E1781

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

PROJECT LOCATION: East Northport GW PFAS

| FIELD SAMPLE #            | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST         | SUB LAB |
|---------------------------|------------|--------|--------------------|--------------|---------|
| EN1-M_5/23/2022           | 22E1781-01 | Water  |                    | SOP-454 PFAS |         |
| EN7-M_5/23/2022           | 22E1781-02 | Water  |                    | SOP-454 PFAS |         |
| EN10-M_5/25/2022          | 22E1781-03 | Water  |                    | SOP-454 PFAS |         |
| Field Blank 5/25/2022     | 22E1781-04 | Water  |                    | SOP-454 PFAS |         |
| Blind Duplicate 5/25/2022 | 22E1781-05 | 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:****MS-12**

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

**Analyte & Samples(s) Qualified:****Perfluorobutanesulfonic acid (PFB)**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**MS-19**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

**Analyte & Samples(s) Qualified:****Perfluorohexanoic acid (PFHxA)**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**Perfluoropentanoic acid (PFPeA)**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**MS-22**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

**Analyte & Samples(s) Qualified:****Perfluorobutanoic acid (PFBA)**

22E1781-02[EN7-M\_5/23/2022], B310322-MSD1

**Perfluorodecanesulfonic acid (PFD)**

B310322-MSD1

**Perfluoroheptanesulfonic acid (PF1)**

B310322-MS1

**Perfluoroheptanoic acid (PFHpA)**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1

**Perfluorohexanesulfonic acid (PFH)**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1

**MS-23**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

**Analyte & Samples(s) Qualified:****Perfluorotridecanoic acid (PFTrDA)**

B310322-MS1

**PF-18**

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

**Analyte & Samples(s) Qualified:****M2-6:2FTS**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**M2PFTA**

22E1781-02[EN7-M\_5/23/2022]

**M3PFBS**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**M5PFPeA**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**M8FOSA**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**MPFBA**

22E1781-02[EN7-M\_5/23/2022], B310322-MS1, B310322-MSD1

**R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

**Analyte & Samples(s) Qualified:****6:2 Fluorotelomersulfonic acid (6:2**

B310322-MSD1

**Perfluorobutanesulfonic acid (PFB**

B310322-MSD1

**Perfluoroheptanesulfonic acid (PF1**

B310322-MSD1

**Perfluorotridecanoic acid (PFTrDA**

B310322-MSD1

**S-29**

Extracted Internal Standard is outside of control limits.

**Analyte & Samples(s) Qualified:****M2-4:2FTS**

22E1781-03[EN10-M\_5/25/2022], 22E1781-04[Field Blank 5/25/2022], 22E1781-05[Blind Duplicate 5/25/2022]

**M2-6:2FTS**

22E1781-03[EN10-M\_5/25/2022], 22E1781-05[Blind Duplicate 5/25/2022]

**M2PFTA**

B310322-MS1

**MPFDoA**

B310322-MS1

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: East Northport GW PFAS

Sample Description:

Work Order: 22E1781

Date Received: 5/26/2022

Field Sample #: EN1-M\_5/23/2022

Sampled: 5/23/2022 17:00

Sample ID: 22E1781-01

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)             | 3.5     | 1.7 | 0.63 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorobutanesulfonic acid (PFBS)       | 0.60    | 1.7 | 0.24 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluoropentanoic acid (PFPeA)           | 4.7     | 1.7 | 0.33 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorohexanoic acid (PFHxA)            | 5.6     | 1.7 | 0.33 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | ND      | 1.7 | 0.51 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorodecanoic acid (PFDA)             | ND      | 1.7 | 0.41 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorododecanoic acid (PFDoA)          | ND      | 1.7 | 0.37 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluoroheptanesulfonic acid (PFHpS)     | 0.80    | 1.7 | 0.79 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| N-EtFOSAA                                 | ND      | 1.7 | 0.53 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| N-MeFOSAA                                 | ND      | 1.7 | 0.64 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorotetradecanoic acid (PFTA)        | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorotridecanoic acid (PFTrDA)        | ND      | 1.7 | 0.23 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorodecanesulfonic acid (PFDS)       | ND      | 1.7 | 0.28 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorooctanesulfonamide (FOSA)         | ND      | 1.7 | 0.36 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorohexanesulfonic acid (PFHxS)      | 9.6     | 1.7 | 0.29 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluoroundecanoic acid (PFUnA)          | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluoroheptanoic acid (PFHpA)           | 2.4     | 1.7 | 0.29 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorooctanoic acid (PFOA)             | 4.8     | 1.7 | 0.58 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorooctanesulfonic acid (PFOS)       | 1.2     | 1.7 | 0.51 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |
| Perfluorononanoic acid (PFNA)             | ND      | 1.7 | 0.29 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:13      | BLH     |



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

Project Location: East Northport GW PFAS

Sample Description:

Work Order: 22E1781

Date Received: 5/26/2022

Field Sample #: EN7-M\_5/23/2022

Sampled: 5/23/2022 11:50

Sample ID: 22E1781-02

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)             | 62      | 1.7 | 0.64 | ng/L  | 1        | MS-22     | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorobutanesulfonic acid (PFBS)       | 4.0     | 1.7 | 0.24 | ng/L  | 1        | MS-12     | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluoropentanoic acid (PFPeA)           | 41      | 1.7 | 0.34 | ng/L  | 1        | MS-19     | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorohexanoic acid (PFHxA)            | 72      | 1.7 | 0.33 | ng/L  | 1        | MS-19     | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | ND      | 1.7 | 0.52 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorodecanoic acid (PFDA)             | ND      | 1.7 | 0.42 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorododecanoic acid (PFDoA)          | ND      | 1.7 | 0.38 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluoroheptanesulfonic acid (PFHpS)     | ND      | 1.7 | 0.81 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| N-EtFOSAA                                 | 2.9     | 1.7 | 0.54 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| N-MeFOSAA                                 | ND      | 1.7 | 0.65 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorotetradecanoic acid (PFTA)        | ND      | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorotridecanoic acid (PFTrDA)        | ND      | 1.7 | 0.24 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorodecanesulfonic acid (PFDS)       | ND      | 1.7 | 0.28 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorooctanesulfonamide (FOSA)         | ND      | 1.7 | 0.36 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorohexanesulfonic acid (PFHxS)      | 16      | 1.7 | 0.29 | ng/L  | 1        | MS-22     | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | 1.0     | 1.7 | 0.31 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluoroundecanoic acid (PFUnA)          | ND      | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluoroheptanoic acid (PFHpA)           | 28      | 1.7 | 0.30 | ng/L  | 1        | MS-22     | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorooctanoic acid (PFOA)             | 52      | 1.7 | 0.59 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorooctanesulfonic acid (PFOS)       | 29      | 1.7 | 0.52 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |
| Perfluorononanoic acid (PFNA)             | 1.5     | 1.7 | 0.30 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:21      | BLH     |

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

Project Location: East Northport GW PFAS

Sample Description:

Work Order: 22E1781

Date Received: 5/26/2022

Field Sample #: EN10-M\_5/25/2022

Sampled: 5/25/2022 14:45

Sample ID: 22E1781-03

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)             | 3.5     | 1.7 | 0.62 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorobutanesulfonic acid (PFBS)       | 0.72    | 1.7 | 0.24 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluoropentanoic acid (PFPeA)           | 3.7     | 1.7 | 0.33 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorohexanoic acid (PFHxA)            | 4.0     | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | ND      | 1.7 | 0.51 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorodecanoic acid (PFDA)             | ND      | 1.7 | 0.41 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorododecanoic acid (PFDoA)          | ND      | 1.7 | 0.37 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluoroheptanesulfonic acid (PFHpS)     | ND      | 1.7 | 0.78 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| N-EtFOSAA                                 | ND      | 1.7 | 0.53 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| N-MeFOSAA                                 | ND      | 1.7 | 0.64 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorotetradecanoic acid (PFTA)        | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorotridecanoic acid (PFTrDA)        | ND      | 1.7 | 0.23 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorodecanesulfonic acid (PFDS)       | ND      | 1.7 | 0.27 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorooctanesulfonamide (FOSA)         | ND      | 1.7 | 0.35 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorohexanesulfonic acid (PFHxS)      | 2.3     | 1.7 | 0.28 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluoroundecanoic acid (PFUnA)          | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluoroheptanoic acid (PFHpA)           | 1.2     | 1.7 | 0.29 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorooctanoic acid (PFOA)             | 1.7     | 1.7 | 0.57 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorooctanesulfonic acid (PFOS)       | ND      | 1.7 | 0.50 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |
| Perfluorononanoic acid (PFNA)             | ND      | 1.7 | 0.29 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:28      | BLH     |

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

Project Location: East Northport GW PFAS

Sample Description:

Work Order: 22E1781

Date Received: 5/26/2022

Field Sample #: Field Blank 5/25/2022

Sampled: 5/25/2022 15:00

Sample ID: 22E1781-04

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      | 1.7 | 0.64 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorobutanesulfonic acid (PFBS)       | ND      | 1.7 | 0.24 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluoropentanoic acid (PFPeA)           | ND      | 1.7 | 0.34 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorohexanoic acid (PFHxA)            | ND      | 1.7 | 0.33 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | ND      | 1.7 | 0.52 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorodecanoic acid (PFDA)             | ND      | 1.7 | 0.42 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorododecanoic acid (PFDoA)          | ND      | 1.7 | 0.38 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluoroheptanesulfonic acid (PFHpS)     | ND      | 1.7 | 0.81 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| N-EtFOSAA                                 | ND      | 1.7 | 0.54 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| N-MeFOSAA                                 | ND      | 1.7 | 0.65 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorotetradecanoic acid (PFTA)        | ND      | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorotridecanoic acid (PFTrDA)        | ND      | 1.7 | 0.24 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorodecanesulfonic acid (PFDS)       | ND      | 1.7 | 0.28 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorooctanesulfonamide (FOSA)         | ND      | 1.7 | 0.36 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorohexanesulfonic acid (PFHxS)      | ND      | 1.7 | 0.29 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluoroundecanoic acid (PFUnA)          | ND      | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluoroheptanoic acid (PFHpA)           | ND      | 1.7 | 0.30 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorooctanoic acid (PFOA)             | ND      | 1.7 | 0.59 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorooctanesulfonic acid (PFOS)       | ND      | 1.7 | 0.52 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |
| Perfluorononanoic acid (PFNA)             | ND      | 1.7 | 0.30 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:35      | BLH     |

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

Project Location: East Northport GW PFAS

Sample Description:

Work Order: 22E1781

Date Received: 5/26/2022

Field Sample #: Blind Duplicate 5/25/2022

Sampled: 5/25/2022 00:00

Sample ID: 22E1781-05

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)             | 3.4     | 1.7 | 0.64 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorobutanesulfonic acid (PFBS)       | 0.80    | 1.7 | 0.24 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluoropentanoic acid (PFPeA)           | 3.5     | 1.7 | 0.34 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorohexanoic acid (PFHxA)            | 3.9     | 1.7 | 0.33 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | ND      | 1.7 | 0.52 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorodecanoic acid (PFDA)             | ND      | 1.7 | 0.42 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorododecanoic acid (PFDoA)          | ND      | 1.7 | 0.38 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluoroheptanesulfonic acid (PFHpS)     | ND      | 1.7 | 0.81 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| N-EtFOSAA                                 | ND      | 1.7 | 0.54 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| N-MeFOSAA                                 | ND      | 1.7 | 0.65 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorotetradecanoic acid (PFTA)        | ND      | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorotridecanoic acid (PFTrDA)        | ND      | 1.7 | 0.24 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorodecanesulfonic acid (PFDS)       | ND      | 1.7 | 0.28 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorooctanesulfonamide (FOSA)         | ND      | 1.7 | 0.36 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorohexanesulfonic acid (PFHxS)      | 2.3     | 1.7 | 0.29 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | ND      | 1.7 | 0.31 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluoroundecanoic acid (PFUnA)          | ND      | 1.7 | 0.32 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluoroheptanoic acid (PFHpA)           | 1.2     | 1.7 | 0.30 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorooctanoic acid (PFOA)             | 1.7     | 1.7 | 0.59 | ng/L  | 1        | J         | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorooctanesulfonic acid (PFOS)       | ND      | 1.7 | 0.52 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |
| Perfluorononanoic acid (PFNA)             | ND      | 1.7 | 0.30 | ng/L  | 1        |           | SOP-454 PFAS | 6/17/22       | 7/14/22 19:42      | BLH     |

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

| Lab Number [Field ID]                  | Batch   | Initial [mL] | Final [mL] | Date     |
|----------------------------------------|---------|--------------|------------|----------|
| 22E1781-01 [EN1-M_5/23/2022]           | B310322 | 296          | 1.00       | 06/17/22 |
| 22E1781-02 [EN7-M_5/23/2022]           | B310322 | 291          | 1.00       | 06/17/22 |
| 22E1781-03 [EN10-M_5/25/2022]          | B310322 | 299          | 1.00       | 06/17/22 |
| 22E1781-04 [Field Blank 5/25/2022]     | B310322 | 290          | 1.00       | 06/17/22 |
| 22E1781-05 [Blind Duplicate 5/25/2022] | B310322 | 291          | 1.00       | 06/17/22 |

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B310322 - SOP 454-PFAAS**
**Blank (B310322-BLK1)**

Prepared: 06/17/22 Analyzed: 07/14/22

|                                           |    |     |      |
|-------------------------------------------|----|-----|------|
| Perfluorobutanoic acid (PFBA)             | ND | 1.8 | ng/L |
| Perfluorobutanesulfonic acid (PFBS)       | ND | 1.8 | ng/L |
| Perfluoropentanoic acid (PFPeA)           | ND | 1.8 | ng/L |
| Perfluorohexanoic acid (PFHxA)            | ND | 1.8 | ng/L |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | ND | 1.8 | ng/L |
| Perfluorodecanoic acid (PFDA)             | ND | 1.8 | ng/L |
| Perfluorododecanoic acid (PFDoA)          | ND | 1.8 | ng/L |
| Perfluoroheptanesulfonic acid (PFHpS)     | ND | 1.8 | ng/L |
| N-EtFOSAA                                 | ND | 1.8 | ng/L |
| N-MeFOSAA                                 | ND | 1.8 | ng/L |
| Perfluorotetradecanoic acid (PFTA)        | ND | 1.8 | ng/L |
| Perfluorotridecanoic acid (PFTrDA)        | ND | 1.8 | ng/L |
| Perfluorodecanesulfonic acid (PFDS)       | ND | 1.8 | ng/L |
| Perfluorooctanesulfonamide (FOSA)         | ND | 1.8 | ng/L |
| Perfluorohexanesulfonic acid (PFHxS)      | ND | 1.8 | ng/L |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | ND | 1.8 | ng/L |
| Perfluoroundecanoic acid (PFUnA)          | ND | 1.8 | ng/L |
| Perfluoroheptanoic acid (PFHpA)           | ND | 1.8 | ng/L |
| Perfluorooctanoic acid (PFOA)             | ND | 1.8 | ng/L |
| Perfluorooctanesulfonic acid (PFOS)       | ND | 1.8 | ng/L |
| Perfluorononanoic acid (PFNA)             | ND | 1.8 | ng/L |

**LCS (B310322-BS1)**

Prepared: 06/17/22 Analyzed: 07/14/22

|                                           |      |     |      |      |      |        |
|-------------------------------------------|------|-----|------|------|------|--------|
| Perfluorobutanoic acid (PFBA)             | 9.11 | 1.8 | ng/L | 8.78 | 104  | 73-129 |
| Perfluorobutanesulfonic acid (PFBS)       | 7.76 | 1.8 | ng/L | 7.77 | 99.8 | 72-130 |
| Perfluoropentanoic acid (PFPeA)           | 8.98 | 1.8 | ng/L | 8.78 | 102  | 72-129 |
| Perfluorohexanoic acid (PFHxA)            | 8.78 | 1.8 | ng/L | 8.78 | 100  | 72-129 |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A) | 7.88 | 1.8 | ng/L | 8.43 | 93.4 | 67-138 |
| Perfluorodecanoic acid (PFDA)             | 7.78 | 1.8 | ng/L | 8.78 | 88.7 | 71-129 |
| Perfluorododecanoic acid (PFDoA)          | 9.60 | 1.8 | ng/L | 8.78 | 109  | 72-134 |
| Perfluoroheptanesulfonic acid (PFHpS)     | 9.44 | 1.8 | ng/L | 8.38 | 113  | 69-134 |
| N-EtFOSAA                                 | 10.8 | 1.8 | ng/L | 8.78 | 123  | 61-135 |
| N-MeFOSAA                                 | 10.2 | 1.8 | ng/L | 8.78 | 116  | 65-136 |
| Perfluorotetradecanoic acid (PFTA)        | 8.61 | 1.8 | ng/L | 8.78 | 98.1 | 71-132 |
| Perfluorotridecanoic acid (PFTrDA)        | 9.02 | 1.8 | ng/L | 8.78 | 103  | 65-144 |
| Perfluorodecanesulfonic acid (PFDS)       | 7.99 | 1.8 | ng/L | 8.47 | 94.3 | 53-142 |
| Perfluorooctanesulfonamide (FOSA)         | 9.43 | 1.8 | ng/L | 8.78 | 107  | 67-137 |
| Perfluorohexanesulfonic acid (PFHxS)      | 8.35 | 1.8 | ng/L | 8.03 | 104  | 68-131 |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A) | 9.88 | 1.8 | ng/L | 8.34 | 119  | 64-140 |
| Perfluoroundecanoic acid (PFUnA)          | 9.55 | 1.8 | ng/L | 8.78 | 109  | 69-133 |
| Perfluoroheptanoic acid (PFHpA)           | 8.89 | 1.8 | ng/L | 8.78 | 101  | 72-130 |
| Perfluorooctanoic acid (PFOA)             | 8.29 | 1.8 | ng/L | 8.78 | 94.4 | 71-133 |
| Perfluorooctanesulfonic acid (PFOS)       | 8.20 | 1.8 | ng/L | 8.12 | 101  | 65-140 |
| Perfluorononanoic acid (PFNA)             | 9.48 | 1.8 | ng/L | 8.78 | 108  | 69-130 |

**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 B310322 - SOP 454-PFAAS**

| <b>Matrix Spike (B310322-MS1)</b>            |      | <b>Source: 22E1781-02</b> |      | Prepared: 06/17/22 Analyzed: 07/14/22 |       |                |        |  |  |       |
|----------------------------------------------|------|---------------------------|------|---------------------------------------|-------|----------------|--------|--|--|-------|
| Perfluorobutanoic acid (PFBA)                | 72.4 | 1.7                       | ng/L | 8.53                                  | 62.1  | 122            | 73-129 |  |  |       |
| <b>Perfluorobutanesulfonic acid (PFBS)</b>   | 15.2 | 1.7                       | ng/L | 7.55                                  | 4.05  | <b>148</b> *   | 72-130 |  |  | MS-12 |
| <b>Perfluoropentanoic acid (PFPeA)</b>       | 40.6 | 1.7                       | ng/L | 8.53                                  | 40.8  | <b>-2.02</b> * | 72-129 |  |  | MS-19 |
| <b>Perfluorohexanoic acid (PFHxA)</b>        | 73.9 | 1.7                       | ng/L | 8.53                                  | 71.6  | <b>27.7</b> *  | 72-129 |  |  | MS-19 |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A)    | 7.98 | 1.7                       | ng/L | 8.19                                  | ND    | 97.5           | 67-138 |  |  |       |
| Perfluorodecanoic acid (PFDA)                | 8.31 | 1.7                       | ng/L | 8.53                                  | ND    | 97.4           | 71-129 |  |  |       |
| Perfluorododecanoic acid (PFDoA)             | 10.2 | 1.7                       | ng/L | 8.53                                  | ND    | 120            | 72-134 |  |  |       |
| <b>Perfluoroheptanesulfonic acid (PFHpS)</b> | 13.3 | 1.7                       | ng/L | 8.15                                  | ND    | <b>163</b> *   | 69-134 |  |  | MS-22 |
| N-EtFOSAA                                    | 10.5 | 1.7                       | ng/L | 8.53                                  | 2.85  | 89.6           | 61-135 |  |  |       |
| N-MeFOSAA                                    | 9.77 | 1.7                       | ng/L | 8.53                                  | ND    | 114            | 65-136 |  |  |       |
| Perfluorotetradecanoic acid (PFTA)           | 9.29 | 1.7                       | ng/L | 8.53                                  | ND    | 109            | 71-132 |  |  |       |
| <b>Perfluorotridecanoic acid (PFTrDA)</b>    | 24.0 | 1.7                       | ng/L | 8.53                                  | ND    | <b>281</b> *   | 65-144 |  |  | MS-23 |
| Perfluorodecanesulfonic acid (PFDS)          | 10.6 | 1.7                       | ng/L | 8.23                                  | ND    | 129            | 53-142 |  |  |       |
| Perfluorooctanesulfonamide (FOSA)            | 9.04 | 1.7                       | ng/L | 8.53                                  | ND    | 106            | 67-137 |  |  |       |
| <b>Perfluorohexanesulfonic acid (PFHxS)</b>  | 28.2 | 1.7                       | ng/L | 7.81                                  | 16.2  | <b>153</b> *   | 68-131 |  |  | MS-22 |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A)    | 8.96 | 1.7                       | ng/L | 8.11                                  | 0.998 | 98.2           | 64-140 |  |  |       |
| Perfluoroundecanoic acid (PFUnA)             | 8.57 | 1.7                       | ng/L | 8.53                                  | ND    | 100            | 69-133 |  |  |       |
| <b>Perfluoroheptanoic acid (PFHpA)</b>       | 33.2 | 1.7                       | ng/L | 8.53                                  | 27.7  | <b>64.4</b> *  | 72-130 |  |  | MS-22 |
| Perfluorooctanoic acid (PFOA)                | 58.7 | 1.7                       | ng/L | 8.53                                  | 52.3  | 74.5           | 71-133 |  |  |       |
| Perfluorooctanesulfonic acid (PFOS)          | 34.8 | 1.7                       | ng/L | 7.89                                  | 29.2  | 71.9           | 65-140 |  |  |       |
| Perfluorononanoic acid (PFNA)                | 9.94 | 1.7                       | ng/L | 8.53                                  | 1.49  | 99.0           | 69-130 |  |  |       |

| <b>Matrix Spike Dup (B310322-MSD1)</b>     |      | <b>Source: 22E1781-02</b> |      | Prepared: 06/17/22 Analyzed: 07/14/22 |       |                |        |               |    |             |
|--------------------------------------------|------|---------------------------|------|---------------------------------------|-------|----------------|--------|---------------|----|-------------|
| <b>Perfluorobutanoic acid (PFBA)</b>       | 65.0 | 1.7                       | ng/L | 8.58                                  | 62.1  | <b>34.3</b> *  | 73-129 | 10.8          | 30 | MS-22       |
| <b>Perfluorobutanesulfonic acid (PFBS)</b> | 25.2 | 1.7                       | ng/L | 7.59                                  | 4.05  | <b>279</b> *   | 72-130 | <b>49.6</b> * | 30 | MS-12, R-06 |
| <b>Perfluoropentanoic acid (PFPeA)</b>     | 40.5 | 1.7                       | ng/L | 8.58                                  | 40.8  | <b>-3.26</b> * | 72-129 | 0.263         | 30 | MS-19       |
| <b>Perfluorohexanoic acid (PFHxA)</b>      | 76.4 | 1.7                       | ng/L | 8.58                                  | 71.6  | <b>56.6</b> *  | 72-129 | 3.31          | 30 | MS-19       |
| 8:2 Fluorotelomersulfonic acid (8:2FTS A)  | 7.93 | 1.7                       | ng/L | 8.24                                  | ND    | 96.3           | 67-138 | 0.670         | 30 |             |
| Perfluorodecanoic acid (PFDA)              | 9.06 | 1.7                       | ng/L | 8.58                                  | ND    | 106            | 71-129 | 8.62          | 30 |             |
| Perfluorododecanoic acid (PFDoA)           | 9.51 | 1.7                       | ng/L | 8.58                                  | ND    | 111            | 72-134 | 7.26          | 30 |             |
| Perfluoroheptanesulfonic acid (PFHpS)      | 9.72 | 1.7                       | ng/L | 8.19                                  | ND    | 119            | 69-134 | <b>31.0</b> * | 30 | R-06        |
| N-EtFOSAA                                  | 8.27 | 1.7                       | ng/L | 8.58                                  | 2.85  | 63.2           | 61-135 | 23.7          | 30 |             |
| N-MeFOSAA                                  | 9.80 | 1.7                       | ng/L | 8.58                                  | ND    | 114            | 65-136 | 0.335         | 30 |             |
| Perfluorotetradecanoic acid (PFTA)         | 8.18 | 1.7                       | ng/L | 8.58                                  | ND    | 95.3           | 71-132 | 12.7          | 30 |             |
| Perfluorotridecanoic acid (PFTrDA)         | 8.95 | 1.7                       | ng/L | 8.58                                  | ND    | 104            | 65-144 | <b>91.3</b> * | 30 | R-06        |
| <b>Perfluorodecanesulfonic acid (PFDS)</b> | 13.2 | 1.7                       | ng/L | 8.28                                  | ND    | <b>159</b> *   | 53-142 | 21.1          | 30 | MS-22       |
| Perfluorooctanesulfonamide (FOSA)          | 9.33 | 1.7                       | ng/L | 8.58                                  | ND    | 109            | 67-137 | 3.16          | 30 |             |
| Perfluorohexanesulfonic acid (PFHxS)       | 24.8 | 1.7                       | ng/L | 7.85                                  | 16.2  | 110            | 68-131 | 12.7          | 30 |             |
| 6:2 Fluorotelomersulfonic acid (6:2FTS A)  | 12.1 | 1.7                       | ng/L | 8.15                                  | 0.998 | 137            | 64-140 | <b>30.1</b> * | 30 | R-06        |
| Perfluoroundecanoic acid (PFUnA)           | 8.92 | 1.7                       | ng/L | 8.58                                  | ND    | 104            | 69-133 | 3.95          | 30 |             |
| Perfluoroheptanoic acid (PFHpA)            | 34.5 | 1.7                       | ng/L | 8.58                                  | 27.7  | 79.6           | 72-130 | 3.96          | 30 |             |
| Perfluorooctanoic acid (PFOA)              | 60.2 | 1.7                       | ng/L | 8.58                                  | 52.3  | 91.8           | 71-133 | 2.56          | 30 |             |
| Perfluorooctanesulfonic acid (PFOS)        | 35.7 | 1.7                       | ng/L | 7.94                                  | 29.2  | 83.1           | 65-140 | 2.61          | 30 |             |
| Perfluorononanoic acid (PFNA)              | 10.9 | 1.7                       | ng/L | 8.58                                  | 1.49  | 109            | 69-130 | 8.93          | 30 |             |

**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).                                                                                                                        |
| MS-12 | Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.                            |
| MS-19 | Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.                                                                  |
| MS-22 | Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.                                                                                  |
| MS-23 | Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound. |
| PF-18 | Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.                                                                                                                                                                    |
| R-06  | Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.                                                                                                            |
| S-29  | Extracted Internal Standard is 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 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------------------|--------------|--------|---------------|---------|---------------|---|
| <b>EN1-M_5/23/2022 (22E1781-01 )</b> <span style="float: right;">Lab File ID: 22E1781-01.d</span> <span style="float: right;">Analyzed: 07/14/22 19:13</span> |          |          |                    |              |        |               |         |               |   |
| M8FOSA                                                                                                                                                        | 264334.9 | 4.020534 | 327,832.00         | 4.020534     | 81     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2PFTA                                                                                                                                                        | 957794.1 | 4.370283 | 1,377,092.00       | 4.370283     | 70     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                                                                                                                                                     | 112066.3 | 3.835017 | 189,332.00         | 3.835017     | 59     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFBA                                                                                                                                                         | 454367.4 | 1.0917   | 553,694.00         | 1.0917       | 82     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M6PFDA                                                                                                                                                        | 639567.1 | 3.8355   | 742,199.00         | 3.8355       | 86     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFBS                                                                                                                                                        | 156721.5 | 1.95315  | 180,663.00         | 1.95315      | 87     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M7PFUnA                                                                                                                                                       | 844558.1 | 3.986    | 1,231,837.00       | 3.986        | 69     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                                                                                                                                     | 86437.52 | 3.477367 | 164,223.00         | 3.477367     | 53     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M5PFPeA                                                                                                                                                       | 509481.6 | 1.766017 | 562,320.00         | 1.766017     | 91     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M5PFHxA                                                                                                                                                       | 1007361  | 2.655    | 1,184,990.00       | 2.655        | 85     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFHxS                                                                                                                                                       | 138621.1 | 3.250667 | 174,621.00         | 3.250667     | 79     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M4PFHpA                                                                                                                                                       | 1250164  | 3.219533 | 1,435,464.00       | 3.219533     | 87     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOA                                                                                                                                                        | 961898.5 | 3.485883 | 1,033,563.00       | 3.485883     | 93     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOS                                                                                                                                                        | 114119.7 | 3.6761   | 117,528.00         | 3.6761       | 97     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M9PFNA                                                                                                                                                        | 596783.2 | 3.677133 | 704,831.00         | 3.677133     | 85     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFDoA                                                                                                                                                        | 942693.3 | 4.120767 | 1,489,209.00       | 4.128783     | 63     | 50 - 150      | -0.0080 | +/-0.50       |   |
| d5-NEtFOSAA                                                                                                                                                   | 234758   | 3.993467 | 359,255.00         | 3.993467     | 65     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                                                                                                                                   | 286747.5 | 3.913883 | 383,068.00         | 3.913883     | 75     | 50 - 150      | 0.0000  | +/-0.50       |   |
| <b>EN7-M_5/23/2022 (22E1781-02 )</b> <span style="float: right;">Lab File ID: 22E1781-02.d</span> <span style="float: right;">Analyzed: 07/14/22 19:21</span> |          |          |                    |              |        |               |         |               |   |
| M8FOSA                                                                                                                                                        | 86482.52 | 4.020534 | 327,832.00         | 4.020534     | 26     | 50 - 150      | 0.0000  | +/-0.50       | * |
| M2PFTA                                                                                                                                                        | 334004.7 | 4.3703   | 1,377,092.00       | 4.370283     | 24     | 50 - 150      | 0.0000  | +/-0.50       | * |
| M2-8:2FTS                                                                                                                                                     | 232644.6 | 3.835017 | 189,332.00         | 3.835017     | 123    | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFBA                                                                                                                                                         | 99341.09 | 1.066783 | 553,694.00         | 1.0917       | 18     | 50 - 150      | -0.0249 | +/-0.50       | * |
| M6PFDA                                                                                                                                                        | 535309.6 | 3.8355   | 742,199.00         | 3.8355       | 72     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFBS                                                                                                                                                        | 78343.74 | 1.90325  | 180,663.00         | 1.95315      | 43     | 50 - 150      | -0.0499 | +/-0.50       | * |
| M7PFUnA                                                                                                                                                       | 761829.3 | 3.986    | 1,231,837.00       | 3.986        | 62     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                                                                                                                                     | 291541.8 | 3.469383 | 164,223.00         | 3.477367     | 178    | 50 - 150      | -0.0080 | +/-0.50       | * |
| M5PFPeA                                                                                                                                                       | 242552.5 | 1.7231   | 562,320.00         | 1.766017     | 43     | 50 - 150      | -0.0429 | +/-0.50       | * |
| M5PFHxA                                                                                                                                                       | 649136.8 | 2.621617 | 1,184,990.00       | 2.655        | 55     | 50 - 150      | -0.0334 | +/-0.50       |   |
| M3PFHxS                                                                                                                                                       | 128298.5 | 3.242583 | 174,621.00         | 3.250667     | 73     | 50 - 150      | -0.0081 | +/-0.50       |   |
| M4PFHpA                                                                                                                                                       | 912807.8 | 3.21145  | 1,435,464.00       | 3.219533     | 64     | 50 - 150      | -0.0081 | +/-0.50       |   |
| M8PFOA                                                                                                                                                        | 727887.3 | 3.485883 | 1,033,563.00       | 3.485883     | 70     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOS                                                                                                                                                        | 78129.65 | 3.676117 | 117,528.00         | 3.6761       | 66     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M9PFNA                                                                                                                                                        | 368636.9 | 3.67715  | 704,831.00         | 3.677133     | 52     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFDoA                                                                                                                                                        | 751553.8 | 4.120767 | 1,489,209.00       | 4.128783     | 50     | 50 - 150      | -0.0080 | +/-0.50       |   |
| d5-NEtFOSAA                                                                                                                                                   | 250821.6 | 3.993467 | 359,255.00         | 3.993467     | 70     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                                                                                                                                   | 277250   | 3.9139   | 383,068.00         | 3.913883     | 72     | 50 - 150      | 0.0000  | +/-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 |
|---------------------------------------|----------|---------------------------|--------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>EN10-M_5/25/2022 (22E1781-03 )</b> |          | Lab File ID: 22E1781-03.d |                    |              |        | Analyzed: 07/14/22 19:28 |         |               |   |
| M8FOSA                                | 292659.5 | 4.020534                  | 327,832.00         | 4.020534     | 89     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-4:2FTS                             | 109956.9 | 2.562517                  | 319,555.00         | 2.562517     | 34     | 50 - 150                 | 0.0000  | +/-0.50       | * |
| M2PFTA                                | 953831.8 | 4.370283                  | 1,377,092.00       | 4.370283     | 69     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                             | 102323.9 | 3.835017                  | 189,332.00         | 3.835017     | 54     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| MPFBA                                 | 447153.4 | 1.0917                    | 553,694.00         | 1.0917       | 81     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3HFPO-DA                             | 162285.2 | 2.896583                  | 156,332.00         | 2.896583     | 104    | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M6PFDA                                | 681204.6 | 3.8355                    | 742,199.00         | 3.8355       | 92     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3PFBS                                | 151193.7 | 1.95315                   | 180,663.00         | 1.95315      | 84     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M7PFUnA                               | 874020.4 | 3.986                     | 1,231,837.00       | 3.986        | 71     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                             | 75555.85 | 3.477367                  | 164,223.00         | 3.477367     | 46     | 50 - 150                 | 0.0000  | +/-0.50       | * |
| M5PFPeA                               | 492652.9 | 1.766017                  | 562,320.00         | 1.766017     | 88     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M5PFHxA                               | 967444.3 | 2.655                     | 1,184,990.00       | 2.655        | 82     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3PFHxS                               | 139727.8 | 3.250667                  | 174,621.00         | 3.250667     | 80     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M4PFHpA                               | 1160899  | 3.219533                  | 1,435,464.00       | 3.219533     | 81     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M8PFOA                                | 921020.1 | 3.485883                  | 1,033,563.00       | 3.485883     | 89     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M8PFOS                                | 106255.1 | 3.6761                    | 117,528.00         | 3.6761       | 90     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M9PFNA                                | 563702.8 | 3.677133                  | 704,831.00         | 3.677133     | 80     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| MPFDoA                                | 896608.9 | 4.128783                  | 1,489,209.00       | 4.128783     | 60     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| d5-NEtFOSAA                           | 219358.6 | 3.993467                  | 359,255.00         | 3.993467     | 61     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                           | 247621.3 | 3.913883                  | 383,068.00         | 3.913883     | 65     | 50 - 150                 | 0.0000  | +/-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 |
|--------------------------------------------|----------|----------|---------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Field Blank 5/25/2022 (22E1781-04 )</b> |          |          | Lab File ID: 22E1781-04.d |              |        | Analyzed: 07/14/22 19:35 |         |               |   |
| M8FOSA                                     | 254494.2 | 4.020534 | 327,832.00                | 4.020534     | 78     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-4:2FTS                                  | 149709.9 | 2.570733 | 319,555.00                | 2.562517     | 47     | 50 - 150                 | 0.0082  | +/-0.50       | * |
| M2PFTA                                     | 900925   | 4.370283 | 1,377,092.00              | 4.370283     | 65     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                                  | 130142.6 | 3.835    | 189,332.00                | 3.835017     | 69     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| MPFBA                                      | 493961.8 | 1.0917   | 553,694.00                | 1.0917       | 89     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3HFPO-DA                                  | 163495.6 | 2.896583 | 156,332.00                | 2.896583     | 105    | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M6PFDA                                     | 658170.1 | 3.8355   | 742,199.00                | 3.8355       | 89     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3PFBS                                     | 152041.5 | 1.95315  | 180,663.00                | 1.95315      | 84     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M7PFUnA                                    | 871075.9 | 3.986    | 1,231,837.00              | 3.986        | 71     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                  | 95231.62 | 3.477367 | 164,223.00                | 3.477367     | 58     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M5PFPeA                                    | 494034.6 | 1.766017 | 562,320.00                | 1.766017     | 88     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M5PFHxA                                    | 987783.3 | 2.655    | 1,184,990.00              | 2.655        | 83     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3PFHxS                                    | 139972   | 3.250667 | 174,621.00                | 3.250667     | 80     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M4PFHpA                                    | 1161754  | 3.219533 | 1,435,464.00              | 3.219533     | 81     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M8PFOA                                     | 903162.8 | 3.493867 | 1,033,563.00              | 3.485883     | 87     | 50 - 150                 | 0.0080  | +/-0.50       |   |
| M8PFOS                                     | 114417   | 3.6761   | 117,528.00                | 3.6761       | 97     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M9PFNA                                     | 613606.8 | 3.677133 | 704,831.00                | 3.677133     | 87     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| MPFDoA                                     | 902582.5 | 4.128783 | 1,489,209.00              | 4.128783     | 61     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| d5-NEtFOSAA                                | 237691.4 | 3.993467 | 359,255.00                | 3.993467     | 66     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                | 298630.8 | 3.913883 | 383,068.00                | 3.913883     | 78     | 50 - 150                 | 0.0000  | +/-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 |
|------------------------------------------------|----------|----------|---------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Blind Duplicate 5/25/2022 (22E1781-05 )</b> |          |          | Lab File ID: 22E1781-05.d |              |        | Analyzed: 07/14/22 19:42 |         |               |   |
| M8FOSA                                         | 275942.8 | 4.020534 | 327,832.00                | 4.020534     | 84     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-4:2FTS                                      | 115104.6 | 2.562517 | 319,555.00                | 2.562517     | 36     | 50 - 150                 | 0.0000  | +/-0.50       | * |
| M2PFTA                                         | 1056131  | 4.370283 | 1,377,092.00              | 4.370283     | 77     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                                      | 113940.8 | 3.835    | 189,332.00                | 3.835017     | 60     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| MPFBA                                          | 482300.8 | 1.0917   | 553,694.00                | 1.0917       | 87     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3HFPO-DA                                      | 169430.2 | 2.896583 | 156,332.00                | 2.896583     | 108    | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M6PFDA                                         | 689269.4 | 3.8355   | 742,199.00                | 3.8355       | 93     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3PFBS                                         | 163024.1 | 1.95315  | 180,663.00                | 1.95315      | 90     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M7PFUnA                                        | 938071.9 | 3.986    | 1,231,837.00              | 3.986        | 76     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                      | 74006.55 | 3.477367 | 164,223.00                | 3.477367     | 45     | 50 - 150                 | 0.0000  | +/-0.50       | * |
| M5PFPeA                                        | 524071.7 | 1.766017 | 562,320.00                | 1.766017     | 93     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M5PFHxA                                        | 1033042  | 2.655    | 1,184,990.00              | 2.655        | 87     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M3PFHxS                                        | 151275   | 3.250667 | 174,621.00                | 3.250667     | 87     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M4PFHpA                                        | 1266504  | 3.219533 | 1,435,464.00              | 3.219533     | 88     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M8PFOA                                         | 965572   | 3.493867 | 1,033,563.00              | 3.485883     | 93     | 50 - 150                 | 0.0080  | +/-0.50       |   |
| M8PFOS                                         | 117982.8 | 3.6761   | 117,528.00                | 3.6761       | 100    | 50 - 150                 | 0.0000  | +/-0.50       |   |
| M9PFNA                                         | 666711.5 | 3.677133 | 704,831.00                | 3.677133     | 95     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| MPFDoA                                         | 1031849  | 4.128783 | 1,489,209.00              | 4.128783     | 69     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| d5-NEtFOSAA                                    | 242583.5 | 3.993467 | 359,255.00                | 3.993467     | 68     | 50 - 150                 | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                    | 276385.3 | 3.913883 | 383,068.00                | 3.913883     | 72     | 50 - 150                 | 0.0000  | +/-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 |
|---------------------------------------------------------------------------------------------------------------------------|----------|----------|--------------------|--------------|--------|---------------|---------|---------------|---|
| <b>Blank (B310322-BLK1 )</b> <span style="float: right;">Lab File ID: B310322-BLK1.d      Analyzed: 07/14/22 18:52</span> |          |          |                    |              |        |               |         |               |   |
| M8FOSA                                                                                                                    | 287598.7 | 4.020534 | 327,832.00         | 4.020534     | 88     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-4:2FTS                                                                                                                 | 233963.3 | 2.562517 | 319,555.00         | 2.562517     | 73     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2PFTA                                                                                                                    | 1036602  | 4.370283 | 1,377,092.00       | 4.370283     | 75     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                                                                                                                 | 172859.9 | 3.835    | 189,332.00         | 3.835017     | 91     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFBA                                                                                                                     | 543765.3 | 1.0834   | 553,694.00         | 1.0917       | 98     | 50 - 150      | -0.0083 | +/-0.50       |   |
| M3HFPO-DA                                                                                                                 | 153855.4 | 2.896583 | 156,332.00         | 2.896583     | 98     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M6PFDA                                                                                                                    | 673174.6 | 3.8355   | 742,199.00         | 3.8355       | 91     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFBS                                                                                                                    | 161083.7 | 1.95315  | 180,663.00         | 1.95315      | 89     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M7PFUnA                                                                                                                   | 982191.6 | 3.986    | 1,231,837.00       | 3.986        | 80     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                                                                                                 | 135277   | 3.477367 | 164,223.00         | 3.477367     | 82     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M5PFPeA                                                                                                                   | 524392.6 | 1.766017 | 562,320.00         | 1.766017     | 93     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M5PFHxA                                                                                                                   | 1035393  | 2.655    | 1,184,990.00       | 2.655        | 87     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFHxS                                                                                                                   | 149409.5 | 3.250667 | 174,621.00         | 3.250667     | 86     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M4PFHpA                                                                                                                   | 1251418  | 3.219533 | 1,435,464.00       | 3.219533     | 87     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOA                                                                                                                    | 968100.6 | 3.485883 | 1,033,563.00       | 3.485883     | 94     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOS                                                                                                                    | 107681.2 | 3.6761   | 117,528.00         | 3.6761       | 92     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M9PFNA                                                                                                                    | 638623.8 | 3.677133 | 704,831.00         | 3.677133     | 91     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFDoA                                                                                                                    | 977517   | 4.128783 | 1,489,209.00       | 4.128783     | 66     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d5-NEtFOSAA                                                                                                               | 223645.3 | 3.993467 | 359,255.00         | 3.993467     | 62     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                                                                                               | 317480.8 | 3.913883 | 383,068.00         | 3.913883     | 83     | 50 - 150      | 0.0000  | +/-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 |
|-----------------------------------------------------------------------------------------------------------------------|----------|----------|--------------------|--------------|--------|---------------|---------|---------------|---|
| <b>LCS (B310322-BS1 )</b> <span style="float: right;">Lab File ID: B310322-BS1.d      Analyzed: 07/14/22 18:45</span> |          |          |                    |              |        |               |         |               |   |
| M8FOSA                                                                                                                | 183021.2 | 4.020534 | 327,832.00         | 4.020534     | 56     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-4:2FTS                                                                                                             | 230068.3 | 2.570733 | 319,555.00         | 2.562517     | 72     | 50 - 150      | 0.0082  | +/-0.50       |   |
| M2PFTA                                                                                                                | 1049932  | 4.370283 | 1,377,092.00       | 4.370283     | 76     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                                                                                                             | 175648.3 | 3.835017 | 189,332.00         | 3.835017     | 93     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFBA                                                                                                                 | 528527.4 | 1.0917   | 553,694.00         | 1.0917       | 95     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3HFPO-DA                                                                                                             | 165287.5 | 2.896583 | 156,332.00         | 2.896583     | 106    | 50 - 150      | 0.0000  | +/-0.50       |   |
| M6PFDA                                                                                                                | 679430.8 | 3.8355   | 742,199.00         | 3.8355       | 92     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFBS                                                                                                                | 160156.7 | 1.95315  | 180,663.00         | 1.95315      | 89     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M7PFUnA                                                                                                               | 884184.1 | 3.986    | 1,231,837.00       | 3.986        | 72     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                                                                                             | 141093.6 | 3.477367 | 164,223.00         | 3.477367     | 86     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M5PFPeA                                                                                                               | 510801.4 | 1.766017 | 562,320.00         | 1.766017     | 91     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M5PFHxA                                                                                                               | 1009004  | 2.655    | 1,184,990.00       | 2.655        | 85     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFHxS                                                                                                               | 139831.6 | 3.250667 | 174,621.00         | 3.250667     | 80     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M4PFHpA                                                                                                               | 1195817  | 3.219533 | 1,435,464.00       | 3.219533     | 83     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOA                                                                                                                | 911890.3 | 3.493867 | 1,033,563.00       | 3.485883     | 88     | 50 - 150      | 0.0080  | +/-0.50       |   |
| M8PFOS                                                                                                                | 109467.2 | 3.6761   | 117,528.00         | 3.6761       | 93     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M9PFNA                                                                                                                | 624147.1 | 3.677133 | 704,831.00         | 3.677133     | 89     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFDoA                                                                                                                | 1023389  | 4.128783 | 1,489,209.00       | 4.128783     | 69     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d5-NEtFOSAA                                                                                                           | 222209.3 | 3.993467 | 359,255.00         | 3.993467     | 62     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                                                                                           | 299062.3 | 3.913883 | 383,068.00         | 3.913883     | 78     | 50 - 150      | 0.0000  | +/-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 |
|---------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------------------|--------------|--------|---------------|---------|---------------|---|
| <b>Matrix Spike (B310322-MS1 )</b> <span style="float: right;">Lab File ID: B310322-MS1.d Analyzed: 07/14/22 18:59</span>       |          |          |                    |              |        |               |         |               |   |
| M8FOSA                                                                                                                          | 117083.2 | 4.020534 | 327,832.00         | 4.020534     | 36     | 50 - 150      | 0.0000  | +/-0.50       | * |
| M2PFTA                                                                                                                          | 78510.53 | 4.3703   | 1,377,092.00       | 4.370283     | 06     | 50 - 150      | 0.0000  | +/-0.50       | * |
| M2-8:2FTS                                                                                                                       | 281905.9 | 3.835017 | 189,332.00         | 3.835017     | 149    | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFBA                                                                                                                           | 100903.6 | 1.066783 | 553,694.00         | 1.0917       | 18     | 50 - 150      | -0.0249 | +/-0.50       | * |
| M6PFDA                                                                                                                          | 621511.4 | 3.8355   | 742,199.00         | 3.8355       | 84     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFBS                                                                                                                          | 85697.53 | 1.90325  | 180,663.00         | 1.95315      | 47     | 50 - 150      | -0.0499 | +/-0.50       | * |
| M7PFUnA                                                                                                                         | 756547.8 | 3.986    | 1,231,837.00       | 3.986        | 61     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                                                                                                       | 303228.8 | 3.477367 | 164,223.00         | 3.477367     | 185    | 50 - 150      | 0.0000  | +/-0.50       | * |
| M5PFPeA                                                                                                                         | 265630.6 | 1.7231   | 562,320.00         | 1.766017     | 47     | 50 - 150      | -0.0429 | +/-0.50       | * |
| M5PFHxA                                                                                                                         | 723517.5 | 2.621617 | 1,184,990.00       | 2.655        | 61     | 50 - 150      | -0.0334 | +/-0.50       |   |
| M3PFHxS                                                                                                                         | 142374.5 | 3.242583 | 174,621.00         | 3.250667     | 82     | 50 - 150      | -0.0081 | +/-0.50       |   |
| M4PFHpA                                                                                                                         | 1001069  | 3.21145  | 1,435,464.00       | 3.219533     | 70     | 50 - 150      | -0.0081 | +/-0.50       |   |
| M8PFOA                                                                                                                          | 806001.4 | 3.485883 | 1,033,563.00       | 3.485883     | 78     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOS                                                                                                                          | 87144.45 | 3.676117 | 117,528.00         | 3.6761       | 74     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M9PFNA                                                                                                                          | 419731.2 | 3.67715  | 704,831.00         | 3.677133     | 60     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFDoA                                                                                                                          | 554276.8 | 4.1288   | 1,489,209.00       | 4.128783     | 37     | 50 - 150      | 0.0000  | +/-0.50       | * |
| d5-NEtFOSAA                                                                                                                     | 336972.6 | 3.993467 | 359,255.00         | 3.993467     | 94     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                                                                                                     | 320763.3 | 3.9139   | 383,068.00         | 3.913883     | 84     | 50 - 150      | 0.0000  | +/-0.50       |   |
| <b>Matrix Spike Dup (B310322-MSD1 )</b> <span style="float: right;">Lab File ID: B310322-MSD1.d Analyzed: 07/14/22 19:06</span> |          |          |                    |              |        |               |         |               |   |
| M8FOSA                                                                                                                          | 114981.2 | 4.02055  | 327,832.00         | 4.020534     | 35     | 50 - 150      | 0.0000  | +/-0.50       | * |
| M2PFTA                                                                                                                          | 708166.7 | 4.3703   | 1,377,092.00       | 4.370283     | 51     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-8:2FTS                                                                                                                       | 281200   | 3.835017 | 189,332.00         | 3.835017     | 149    | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFBA                                                                                                                           | 106073.4 | 1.066783 | 553,694.00         | 1.0917       | 19     | 50 - 150      | -0.0249 | +/-0.50       | * |
| M6PFDA                                                                                                                          | 644565.4 | 3.8355   | 742,199.00         | 3.8355       | 87     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M3PFBS                                                                                                                          | 89254.05 | 1.90325  | 180,663.00         | 1.95315      | 49     | 50 - 150      | -0.0499 | +/-0.50       | * |
| M7PFUnA                                                                                                                         | 938119   | 3.986    | 1,231,837.00       | 3.986        | 76     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M2-6:2FTS                                                                                                                       | 265122.4 | 3.469383 | 164,223.00         | 3.477367     | 161    | 50 - 150      | -0.0080 | +/-0.50       | * |
| M5PFPeA                                                                                                                         | 266940.5 | 1.7231   | 562,320.00         | 1.766017     | 47     | 50 - 150      | -0.0429 | +/-0.50       | * |
| M5PFHxA                                                                                                                         | 731000   | 2.621617 | 1,184,990.00       | 2.655        | 62     | 50 - 150      | -0.0334 | +/-0.50       |   |
| M3PFHxS                                                                                                                         | 144399.9 | 3.242583 | 174,621.00         | 3.250667     | 83     | 50 - 150      | -0.0081 | +/-0.50       |   |
| M4PFHpA                                                                                                                         | 983030.5 | 3.21145  | 1,435,464.00       | 3.219533     | 68     | 50 - 150      | -0.0081 | +/-0.50       |   |
| M8PFOA                                                                                                                          | 798379.8 | 3.485883 | 1,033,563.00       | 3.485883     | 77     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M8PFOS                                                                                                                          | 96210.13 | 3.676117 | 117,528.00         | 3.6761       | 82     | 50 - 150      | 0.0000  | +/-0.50       |   |
| M9PFNA                                                                                                                          | 432969.8 | 3.67715  | 704,831.00         | 3.677133     | 61     | 50 - 150      | 0.0000  | +/-0.50       |   |
| MPFDoA                                                                                                                          | 945677.3 | 4.1288   | 1,489,209.00       | 4.128783     | 64     | 50 - 150      | 0.0000  | +/-0.50       |   |
| d5-NEtFOSAA                                                                                                                     | 368456.7 | 3.993467 | 359,255.00         | 3.993467     | 103    | 50 - 150      | 0.0000  | +/-0.50       |   |
| d3-NMeFOSAA                                                                                                                     | 336865.6 | 3.9139   | 383,068.00         | 3.913883     | 88     | 50 - 150      | 0.0000  | +/-0.50       |   |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                                   | Certifications |
|-------------------------------------------|----------------|
| <b>SOP-454 PFAS in Water</b>              |                |
| 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        | 03/1/2024  |
| MA    | Massachusetts DEP                            | M-MA100       | 06/30/2023 |
| CT    | Connecticut Department of Public Health      | PH-0165       | 12/31/2022 |
| NY    | New York State Department of Health          | 10899 NELAP   | 04/1/2023  |
| NH-S  | New Hampshire Environmental Lab              | 2516 NELAP    | 02/5/2023  |
| RI    | Rhode Island Department of Health            | LAO00373      | 12/30/2022 |
| NC    | North Carolina Div. of Water Quality         | 652           | 12/31/2022 |
| NJ    | New Jersey DEP                               | MA007 NELAP   | 06/30/2023 |
| FL    | Florida Department of Health                 | E871027 NELAP | 06/30/2023 |
| VT    | Vermont Department of Health Lead Laboratory | LL720741      | 07/30/2023 |
| ME    | State of Maine                               | MA00100       | 06/9/2023  |
| VA    | Commonwealth of Virginia                     | 460217        | 12/14/2022 |
| NH-P  | New Hampshire Environmental Lab              | 2557 NELAP    | 09/6/2022  |
| VT-DW | Vermont Department of Health Drinking Water  | VT-255716     | 06/12/2023 |
| NC-DW | North Carolina Department of Health          | 25703         | 07/31/2022 |
| PA    | Commonwealth of Pennsylvania DEP             | 68-05812      | 06/30/2023 |
| MI    | Dept. of Env, Great Lakes, and Energy        | 9100          | 09/6/2022  |



# Internal Transfer Chain of Custody

22E1781



☐ Samples Pre-Logged into eCOC.

State Of Origin: NY

Cert. Needed: ☒ Yes ☐ No

Workorder: 70215927 Workorder Name: EAST NORTHPORT GW PFAS/1,4

Owner Received Date: 5/24/2022 Results Requested By: 6/7/2022

Report To: Subcontract To

Giovanna F. Deloca  
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

Pace Analytical®  
www.pacelabs.com

| Requested Analysis |                           |             |                   | Comments    |        |                      |              |
|--------------------|---------------------------|-------------|-------------------|-------------|--------|----------------------|--------------|
| Item               | Sample ID                 | Sample Type | Collect Date/Time | Lab ID      | Matrix | Preserved Containers | LAB USE ONLY |
| 1                  | EN1-M_5/23/2022           | PS          | 5/23/2022 17:00   | 70215927001 | Water  | 1                    |              |
| 2                  | EN7-M_5/23/2022           | RQS         | 5/23/2022 11:50   | 70215927002 | Water  | 1                    |              |
| 3                  | EN10-M-5/25/2022          | PS          | 5/25/2022 14:45   | 70215927003 | Water  | 1                    |              |
| 4                  | FIELD BLANK 5/25/2022     | PS          | 5/25/2022 15:00   | 70215927004 | Water  | 1                    |              |
| 5                  | BLIND DUPLICATE 5/25/2022 | PS          | 5/25/2022 00:00   | 70215927005 | Water  | 1                    |              |

| Transfers | Released By        | Date/Time | Received By | Date/Time |
|-----------|--------------------|-----------|-------------|-----------|
| 1         | <i>[Signature]</i> | 5/24/2022 |             |           |
| 2         |                    |           |             |           |
| 3         |                    |           |             |           |

| Cooler Temperature on Receipt | °C | Custody Seal | Y | or | Received on Ice | Y | or | Samples Intact | Y | or |
|-------------------------------|----|--------------|---|----|-----------------|---|----|----------------|---|----|
|                               |    |              |   |    |                 |   |    |                |   |    |

CAT B LVL 4 PKG NEEDED W/ NY EQUIS EDD  
PLEASE APPEND TO EXISTING WORKORDER

\*\*\*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.

WO#: 70215927



# CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL

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

Pace

## Section A

### Required Client Information:

Company: Dvika & Bartucci  
Address: 330 Crossways Park Drive  
Woodbury, NY 11797  
Email: krobins@ddb-eng.com  
Phone: (516) 578-5546  
Fax: (516) 578-5546  
Requested Due Date: 5/24/2022

## Section B

### Required Project Information:

Report To: Keith Robins  
Copy To:   
Purchase Order #:   
Project Name: East Northport PFAS/1,4 Dioxane  
Project #: 5625-14000101000001  
Sampling Event: 2022

## Section C

### Invoice Information:

Attention: Keith Robins  
Company Name: Dvika & Bartucci  
Address: 330 Crossways Park Drive, Woodbury, NY 11797  
Pace Quote:   
Pace Project Manager: giovanna.deluca@paceclabs.com  
Pace Profile #: 5278

ms.pdf

Page: 1 Of 1

Regulatory Agency

State / Location

NY

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9 / , -)<br>Sample IDs must be unique | MATRIX<br>Drinking Water<br>Water<br>Waste Water<br>Product<br>Soil/Solid<br>Oil<br>Wipe<br>Air<br>Other<br>Tissue | CODE<br>DW<br>WT<br>WW<br>P<br>SL<br>CL<br>WP<br>AR<br>OT<br>TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES |      |      |      |       |      |     |      | Analyses Test<br>Y/N | Requested Analysis Filtered (Y/N) |          |       |   |   |   |   |   |   |   |   |   |   |   |   |   | Residual Chlorine (Y/N) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   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|        |                                                                                      |                                                                                                                    |                                                                 |                                       |                             | START     | END  |                           |                 | DATE          | TIME | DATE | TIME | H2SO4 | HNO3 | HCl | NaOH |                      | Na2S2O3                           | Methanol | Other |   |   |   |   |   |   |   |   |   |   |   |   |   |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   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|   |   |   |   |   |   |   |   |   |   |   |
|        |                                                                                      |                                                                                                                    |                                                                 |                                       |                             |           |      |                           |                 |               |      |      |      |       |      |     |      |                      |                                   |          |       |   |   |   |   |   |   |   |   |   |   |   |   |   |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  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|   |   |   |   |   |   |   |   |   |   |   |
| 1      | EN 1-M                                                                               | -5/23/2022                                                                                                         |                                                                 | WT                                    | G                           | 5/23/2022 | 5:00 | 5/23/2022                 | -               | 4             | -    | -    | -    | -     | -    | -   | -    | -                    | -                                 | -        | -     | - | - | - | - | - | - | - | - | - | - | - | - | - | -                       | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 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| - | - | - | - | - | - | - | - | - | - | - |

| ADDITIONAL COMMENTS              | RELINQUISHED BY / AFFILIATION   |  | DATE      |  | TIME  |  | ACCEPTED BY / AFFILIATION |  | DATE    |  | TIME    |  | SAMPLE CONDITIONS |  |
|----------------------------------|---------------------------------|--|-----------|--|-------|--|---------------------------|--|---------|--|---------|--|-------------------|--|
|                                  |                                 |  |           |  |       |  |                           |  |         |  |         |  |                   |  |
| provide CATAPULT 0' and 10' MS   | Keith Robins / Dvika & Bartucci |  | 5/23/2022 |  | 11:50 |  | Dyed Apple                |  | 5/24/22 |  | 9:40 AM |  | Excellent         |  |
| sent data to Lab dated 5/24/2022 |                                 |  |           |  |       |  |                           |  |         |  |         |  |                   |  |

Keith Robins  
Keith Robins  
5/24/2022  
Temp: 13°C

NO#: 70215927

# CHAIN-OF-CUSTODY / Analytical Request

PM: GFD Due Date: 06/07/22

CLIENT: DAB

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://

## Section A

### Required Client Information:

Company: Dvirka & Barilucci  
Address: 330 Crossways Park Drive  
Woodbury, NY 11797  
Email: krobin@db-eng.com  
Phone: (516) 578-5546  
Fax:   
Requested Due Date:   
Project Name: East Northport PFAS/1,4-Dioxane  
Project #: 5629 - Field Sample  
Sample ID: EN10 - M-5/2022

## Section B

### Required Project Information:

Report To: Keith Robins  
Copy To:   
Purchase Order #:   
Project Name: East Northport PFAS/1,4-Dioxane  
Project #: 5629 - Field Sample  
Sample ID: EN10 - M-5/2022

### Invoice Information:

Attention: ROY N. ROBINS  
Company Name: DAB Environmental Architecture  
Address: 330 Crossways Park Drive, Woodbury  
Pace Quote:   
Pace Project Manager: giovanna.deluca@pacelabs.com  
Pace Profile #: 5278

Regulatory Agency

State/Location

NY

| ITEM # | MATRIX                   | CODE  | COLLECTED    |         | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see valid codes to left) | DATE    |      | TIME | # OF CONTAINERS | PRESERVATIVES |      | ANALYSES TEST | Y/N     | REQUESTED ANALYSIS FILTERED (Y/N) |       | DATE                    | TIME    | SAMPLE CONDITIONS |
|--------|--------------------------|-------|--------------|---------|-----------------------------|---------------------------------------|---------|------|------|-----------------|---------------|------|---------------|---------|-----------------------------------|-------|-------------------------|---------|-------------------|
|        |                          |       | START        | END     |                             |                                       | DATE    | TIME |      |                 | H2SO4         | HNO3 | NaOH          | Na2S2O3 | Methanol                          | Other |                         |         |                   |
| 1      | EN10 - M-5/2022          | Water | 5/18/22 2:15 | 5/18/22 | G                           | W6                                    | 5/18/22 | 2:15 | 4    | 4               | -             | -    | -             | -       | -                                 | -     | PFAS by 537             | 5/18/22 | 2:15              |
| 2      | Field Blank - 5/2022     | Water | 5/18/22 3:00 | 5/18/22 | G                           | W6                                    | 5/18/22 | 3:00 | 4    | 4               | -             | -    | -             | -       | -                                 | -     | 1,4-Dioxane by 8270 SIM | 5/18/22 | 3:00              |
| 3      | Blank Duplicate - 5/2022 | Water | 5/18/22 3:00 | 5/18/22 | G                           | W6                                    | 5/18/22 | 3:00 | 4    | 4               | -             | -    | -             | -       | -                                 | -     | PFAS by 537             | 5/18/22 | 3:00              |
| 4      |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 5      |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 6      |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 7      |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 8      |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 9      |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 10     |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 11     |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |
| 12     |                          |       |              |         |                             |                                       |         |      |      |                 |               |      |               |         |                                   |       |                         |         |                   |

| ADDITIONAL COMMENTS                 | RELINQUISHED BY / AFFILIATION | DATE    | TIME  | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |
|-------------------------------------|-------------------------------|---------|-------|---------------------------|---------|------|-------------------|
|                                     |                               |         |       |                           |         |      |                   |
| Provide Copy to B and Eurus         | Keith Robins / DAB Eng        | 5/18/22 | 04:25 | Keith Robins / DAB Eng    | 5/18/22 | 2:26 | 11.8 over         |
| Send data to Lab 406 406@db-eng.com |                               |         |       |                           |         |      |                   |

|              |         |      |           |
|--------------|---------|------|-----------|
| Keith Robins | 5/18/22 | 2:26 | 11.8 over |
| Keith Robins | 5/18/22 | 2:26 | 11.8 over |
| Keith Robins | 5/18/22 | 2:26 | 11.8 over |

FedEx® Tracking



584490583830

ADD NICKNAME



**Delivered**  
Friday, 05/27/2022 at 9:32 am



**DELIVERED**

Signed for by: R.PETRAITIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

**FROM**  
MELVILLE, NY US

**TO**  
EAST LONGMEADOW, MA US

MANAGE DELIVERY

## Travel History

### TIME ZONE

Local Scan Time



Friday, May 27,  
2022

|         |                     |                               |
|---------|---------------------|-------------------------------|
| 9:32 AM | EAST LONGMEADOW, MA | Delivered                     |
| 8:15 AM | WINDSOR LOCKS, CT   | On FedEx vehicle for delivery |
| 8:06 AM | WINDSOR LOCKS, CT   | At local FedEx facility       |
| 2:54 AM | NEWARK, NJ          | Departed FedEx hub            |

Thursday, May 26,  
2022

|          |            |                    |
|----------|------------|--------------------|
| 10:11 PM | NEWARK, NJ | Departed FedEx hub |
|----------|------------|--------------------|

22E1781



State Of Origin: NY

**Cert. Needed:** ☒ Yes ☐ No

Workorder: 70215927      Workorder Name: EAST NORTHPORT GW PFAS/1.4

**Owner Received Date:** 5/24/2022      **Results Requested By:** 6/17/2022

|           |                |
|-----------|----------------|
| Report To | Subcontract To |
|-----------|----------------|

Giovanna F. Deloca  
Pace Analytical Melville  
775 Broad Hollow Road  
Melville, NY 11747  
Phone (631)694-3040

Pace New England  
339 Spruce St.  
East Longmeadow,  
Phone (413)525-2333

| Subcontract ID                                                                                                       |                 |             |                   |             |        |           |                      |  |  | Requested Analysis                                                                    |                                |                         |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Giovanna F. Deloca<br>Pace Analytical Melville<br>575 Broad Hollow Road<br>Melville, NY 11747<br>Phone (631)694-3040 |                 |             |                   |             |        |           |                      |  |  | Pace New England<br>39 Spruce St.<br>East Longmeadow, MA 01028<br>Phone (413)525-2332 |                                |                         |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Item                                                                                                                 | Sample ID       | Sample Type | Collect Date/Time | Lab ID      | Matrix | Impressed | Preserved Containers |  |  |                                                                                       | PFAS - ISOTOPE DILUTION-MS/MSD | PFAS - ISOTOPE DILUTION |  |  |  |  |  |  | LAB USE ONLY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                    | EN1-M_5/23/2022 | PS          | 5/23/2022 17:00   | 70215927001 | Water  | 1         |                      |  |  |                                                                                       |                                |                         |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\*\*\*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.



FedEx® Tracking



584490583510

ADD NICKNAME



**Delivered**  
Thursday, 05/26/2022 at 9:38 am



**DELIVERED**

Signed for by: R.PETRAITIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

**FROM**  
MELVILLE, NY US

**TO**  
EAST LONGMEADOW, MA US

MANAGE DELIVERY

Travel History

**TIME ZONE**

Local Scan Time



Thursday, May 26,  
2022

|         |                     |                               |
|---------|---------------------|-------------------------------|
| 9:38 AM | EAST LONGMEADOW, MA | Delivered                     |
| 7:18 AM | WINDSOR LOCKS, CT   | On FedEx vehicle for delivery |
| 7:07 AM | WINDSOR LOCKS, CT   | At local FedEx facility       |
| 2:30 AM | NEWARK, NJ          | Departed FedEx hub            |

Wednesday, May 25,  
2022

|          |              |                            |
|----------|--------------|----------------------------|
| 10:16 PM | NEWARK, NJ   | Departed FedEx hub         |
| 10:11 PM | NEWARK, NJ   | Arrived at FedEx hub       |
| 9:02 PM  | MELVILLE, NY | Left FedEx origin facility |

Page: 1 Of 1

## CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL document and acceptance of the Pace Terms

ms.pdf

Page: 1 Of 1

Section C  
Invoice Information:

Attention: Kerly Robins  
 Company Name: D & B Engineers & Architects Inc  
 Address: 330 Cassways Park Dr, Waukegan  
 Pace Quote: 330  
 Pace Project Manager: giovanna.deluca@paceilabs.com  
 Pace Profile #: 5278

|                    |                          |                   |                                 |
|--------------------|--------------------------|-------------------|---------------------------------|
| Company            | Dvika & Bartilucci       | Report To:        | Keith Robins                    |
| Address            | 330 Crossways Park Drive | Copy To:          |                                 |
|                    | Woodbury, NY 11797       | Purchase Order #: |                                 |
| Email              | krobins@adb-eng.com      | Project Name:     | East Northport PFA3/1.4 Dixiane |
| Phone:             | (516)578-5546            | Project #:        | 5675- <i>Project 5675</i>       |
| Requested Due Date | 5/7 and 6/7              |                   |                                 |

Sampling Event - 2022

Requested Analysis Filtered (Y/N)

[illegible]

WO#: 70215927

Client Name:

Project

PM: GFD

Due Date: 06/17/22

CLIENT: D&amp;B

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/ATemperature Blank Present: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ OtherType of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: ~~TH091~~ TH189 Correction Factor: + 0.1☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.3 Cooler Temperature Corrected(°C): 1.4

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☒ N/A, water sample)Date and Initials of person examining contents: KU 5/24/22

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



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 PUEP  
 Received By LA Date 5/26/22 Time 034  
 How were the samples received? In Cooler T No Cooler F On Ice T No Ice F  
 Direct from Sampling F Ambient F Melted Ice F  
 Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 20  
 By Blank # NA Actual Temp - NA  
 Was Custody Seal Intact? NA Were Samples Tampered with? F  
 Was COC Relinquished? T Does Chain Agree With Samples? F  
 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 pertinent Information? Client T Analysis T Sampler Name F  
 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? NA  
 Are there Rushes? F Who was notified? NA  
 Are there Short Holds? F Who was notified? NA  
 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 NA Base NA

| 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  | 8 | 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:**

5/27- 6 more 250mL plastic received  
 for 3 additional samples on updated COC

## ANALYTICAL REPORT

Job Number: 480-198416-1

Job Description: EAST NORTHPORT GW

For:

Pace Analytical Services, LLC  
575 Broad Hollow Road  
Melville, NY 11747  
Attention: Giovanna Deloca



Approved for release.  
Rebecca M Jones  
Project Management Assistant I  
6/3/2022 4:30 PM

---

Designee for  
John R Schove, Project Manager II  
10 Hazelwood Drive, Amherst, NY, 14228-2298  
(716)504-9838  
John.Schove@et.eurofinsus.com  
06/03/2022

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### **Eurofins Buffalo**

10 Hazelwood Drive, Amherst, NY 14228-2298  
Tel (716) 691-2600 Fax (716) 691-7991 [www.EurofinsUS.com](http://www.EurofinsUS.com)

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**Job Narrative**  
**480-198416-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/27/2022 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 2.0° 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 NORTHPORT GW

Job ID: 480-198416-1

---

| Lab Sample ID | Client Sample ID          | Matrix | Collected      | Received       |
|---------------|---------------------------|--------|----------------|----------------|
| 480-198416-1  | EN10-M-5/25/2022          | Water  | 05/25/22 14:45 | 05/27/22 10:00 |
| 480-198416-2  | FIELD BLANK 5/25/2022     | Water  | 05/25/22 15:00 | 05/27/22 10:00 |
| 480-198416-3  | BLIND DUPLICATE 5/25/2022 | Water  | 05/25/22 00:00 | 05/27/22 10:00 |

## Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**Client Sample ID: EN10-M-5/25/2022**

**Lab Sample ID: 480-198416-1**

| 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  |

**Client Sample ID: FIELD BLANK 5/25/2022**

**Lab Sample ID: 480-198416-2**

No Detections.

**Client Sample ID: BLIND DUPLICATE 5/25/2022**

**Lab Sample ID: 480-198416-3**

| Analyte     | Result | Qualifier | RL   | MDL  | Unit | Dil | Fac | D | Method       | Prep Type |
|-------------|--------|-----------|------|------|------|-----|-----|---|--------------|-----------|
| 1,4-Dioxane | 0.22   |           | 0.20 | 0.10 | ug/L |     |     | 1 | 8270D SIM ID | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

06/03/2022

# Method Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

| 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 Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Client Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**Client Sample ID: EN10-M-5/25/2022**

**Lab Sample ID: 480-198416-1**

**Date Collected: 05/25/22 14:45**

**Matrix: Water**

**Date Received: 05/27/22 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 |   | 05/31/22 16:10 | 06/01/22 22:46 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 36        |           | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 22:46 | 1       |

**Client Sample ID: FIELD BLANK 5/25/2022**

**Lab Sample ID: 480-198416-2**

**Date Collected: 05/25/22 15:00**

**Matrix: Water**

**Date Received: 05/27/22 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 |   | 05/31/22 16:10 | 06/01/22 23:08 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 32        |           | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 23:08 | 1       |

**Client Sample ID: BLIND DUPLICATE 5/25/2022**

**Lab Sample ID: 480-198416-3**

**Date Collected: 05/25/22 00:00**

**Matrix: Water**

**Date Received: 05/27/22 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      | 0.22      |           | 0.20     | 0.10 | ug/L |   | 05/31/22 16:10 | 06/01/22 23:31 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 34        |           | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 23:31 | 1       |

# Isotope Dilution Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**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<br>(15-110) |
|--------------------|---------------------------|-----------------|
| 480-198416-1       | EN10-M-5/25/2022          | 36              |
| 480-198416-2       | FIELD BLANK 5/25/2022     | 32              |
| 480-198416-3       | BLIND DUPLICATE 5/25/2022 | 34              |
| LCS 480-628215/2-A | Lab Control Sample        | 42              |
| MB 480-628215/1-A  | Method Blank              | 38              |

### Surrogate Legend

DXE = 1,4-Dioxane-d8

# QC Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-628215/1-A

Matrix: Water

Analysis Batch: 628363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628215

| Analyte          | MB<br>Result    | MB<br>Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------------|----------|------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.20            | U               | 0.20     | 0.10 | ug/L |   | 05/31/22 16:10 | 06/01/22 16:28 | 1       |
| Isotope Dilution | MB<br>%Recovery | MB<br>Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 38              |                 | 15 - 110 |      |      |   | 05/31/22 16:10 | 06/01/22 16:28 | 1       |

Lab Sample ID: LCS 480-628215/2-A

Matrix: Water

Analysis Batch: 628363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628215

| Analyte          |                  |                  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|------------------|------------------|------------------|----------------|---------------|------------------|------|---|------|----------------|
| 1,4-Dioxane      |                  |                  | 2.00           | 2.32          |                  | ug/L |   | 116  | 40 - 140       |
| Isotope Dilution | LCS<br>%Recovery | LCS<br>Qualifier | Limits         |               |                  |      |   |      |                |
| 1,4-Dioxane-d8   | 42               |                  | 15 - 110       |               |                  |      |   |      |                |

# Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|-----------------------|
|-----------|-----------------------|

|   |                                                          |
|---|----------------------------------------------------------|
| 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 NORTHPORT GW

Job ID: 480-198416-1

## GC/MS Semi VOA

### Prep Batch: 628215

| Lab Sample ID      | Client Sample ID          | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------|-----------|--------|--------|------------|
| 480-198416-1       | EN10-M-5/25/2022          | Total/NA  | Water  | 3510C  |            |
| 480-198416-2       | FIELD BLANK 5/25/2022     | Total/NA  | Water  | 3510C  |            |
| 480-198416-3       | BLIND DUPLICATE 5/25/2022 | Total/NA  | Water  | 3510C  |            |
| MB 480-628215/1-A  | Method Blank              | Total/NA  | Water  | 3510C  |            |
| LCS 480-628215/2-A | Lab Control Sample        | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 628363

| Lab Sample ID      | Client Sample ID          | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|---------------------------|-----------|--------|--------------|------------|
| 480-198416-1       | EN10-M-5/25/2022          | Total/NA  | Water  | 8270D SIM ID | 628215     |
| 480-198416-2       | FIELD BLANK 5/25/2022     | Total/NA  | Water  | 8270D SIM ID | 628215     |
| 480-198416-3       | BLIND DUPLICATE 5/25/2022 | Total/NA  | Water  | 8270D SIM ID | 628215     |
| MB 480-628215/1-A  | Method Blank              | Total/NA  | Water  | 8270D SIM ID | 628215     |
| LCS 480-628215/2-A | Lab Control Sample        | Total/NA  | Water  | 8270D SIM ID | 628215     |

# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

**Client Sample ID: EN10-M-5/25/2022**

**Lab Sample ID: 480-198416-1**

**Date Collected: 05/25/22 14:45**

**Matrix: Water**

**Date Received: 05/27/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 628215       | 05/31/22 16:10       | CMC     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID |     | 1               | 628363       | 06/01/22 22:46       | PJQ     | TAL BUF |

**Client Sample ID: FIELD BLANK 5/25/2022**

**Lab Sample ID: 480-198416-2**

**Date Collected: 05/25/22 15:00**

**Matrix: Water**

**Date Received: 05/27/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 628215       | 05/31/22 16:10       | CMC     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID |     | 1               | 628363       | 06/01/22 23:08       | PJQ     | TAL BUF |

**Client Sample ID: BLIND DUPLICATE 5/25/2022**

**Lab Sample ID: 480-198416-3**

**Date Collected: 05/25/22 00:00**

**Matrix: Water**

**Date Received: 05/27/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 628215       | 05/31/22 16:10       | CMC     | TAL BUF |
| Total/NA  | Analysis   | 8270D SIM ID |     | 1               | 628363       | 06/01/22 23:31       | PJQ     | TAL BUF |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Pace Analytical Services, LLC  
Project/Site: EAST NORTHPORT GW

Job ID: 480-198416-1

### Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-23        |

# Method 8270D

## SIM-ID

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Semivolatile Organic Compounds  
(GC/MS SIM / Isotope Dilution) by  
Method 8270D



FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo

Job No.: 480-198416-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

| Client Sample ID             | Lab Sample ID         | DXE # |
|------------------------------|-----------------------|-------|
| EN10-M-5/25/2022             | 480-198416-1          | 36    |
| FIELD BLANK<br>5/25/2022     | 480-198416-2          | 32    |
| BLIND DUPLICATE<br>5/25/2022 | 480-198416-3          | 34    |
|                              | MB<br>480-628215/1-A  | 38    |
|                              | LCS<br>480-628215/2-A | 42    |

DXE = 1,4-Dioxane-d8

QC LIMITS  
15-110

# Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: U331669683.D  
Lab ID: LCS 480-628215/2-A Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|----------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,4-Dioxane    | 2.00                     | 2.32                           | 116             | 40-140              |   |
| 1,4-Dioxane-d8 | 20.0                     | 8.34                           | 42              | 15-110              |   |

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Lab File ID: U331669682.D Lab Sample ID: MB 480-628215/1-A  
Matrix: Water Date Extracted: 05/31/2022 16:10  
Instrument ID: HP5973U Date Analyzed: 06/01/2022 16:28  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID          | LAB SAMPLE ID      | LAB<br>FILE ID   | DATE ANALYZED    |
|---------------------------|--------------------|------------------|------------------|
|                           | LCS 480-628215/2-A | U331669683.<br>D | 06/01/2022 16:51 |
| EN10-M-5/25/2022          | 480-198416-1       | U331669699.<br>D | 06/01/2022 22:46 |
| FIELD BLANK 5/25/2022     | 480-198416-2       | U331669700.<br>D | 06/01/2022 23:08 |
| BLIND DUPLICATE 5/25/2022 | 480-198416-3       | U331669701.<br>D | 06/01/2022 23:31 |

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Lab File ID: U33166049.D DFTPP Injection Date: 04/06/2022  
Instrument ID: HP5973U DFTPP Injection Time: 16:12  
Analysis Batch No.: 620693

| M/E | ION ABUNDANCE CRITERIA                | % RELATIVE ABUNDANCE |
|-----|---------------------------------------|----------------------|
| 51  | 10-80% of Base Peak                   | 30.1                 |
| 68  | Less than 2% of mass 69               | 0.0 (0.0) 1          |
| 69  | Mass 69 Relative abundance            | 32.9                 |
| 70  | Less than 2% of mass 69               | 0.2 (0.6) 1          |
| 127 | 10-80% of Base Peak                   | 42.2                 |
| 197 | Less than 2% of mass 198              | 0.0                  |
| 198 | Base peak                             | 100.0                |
| 199 | 5-9% of mass 198                      | 6.8                  |
| 275 | 10-60% of Base Peak                   | 27.9                 |
| 365 | Greater than 1% of mass 198           | 4.4                  |
| 441 | present but less than 24% of mass 442 | 19.7 (16.7) 2        |
| 442 | Greater than 50% of mass 198          | 118.0                |
| 443 | 15-24% of mass 442                    | 22.7 (19.2) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|-------------|---------------|---------------|
|                  | IC 480-620693/3   | U33166050.D | 04/06/2022    | 16:42         |
|                  | IC 480-620693/4   | U33166051.D | 04/06/2022    | 17:04         |
|                  | IC 480-620693/5   | U33166052.D | 04/06/2022    | 17:26         |
|                  | ICIS 480-620693/6 | U33166053.D | 04/06/2022    | 17:48         |
|                  | IC 480-620693/7   | U33166054.D | 04/06/2022    | 18:09         |
|                  | IC 480-620693/8   | U33166055.D | 04/06/2022    | 18:32         |
|                  | ICV 480-620693/9  | U33166056.D | 04/06/2022    | 18:54         |

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Lab File ID: U331669680.D DFTPP Injection Date: 06/01/2022  
Instrument ID: HP5973U DFTPP Injection Time: 15:35  
Analysis Batch No.: 628363

| M/E | ION ABUNDANCE CRITERIA                | % RELATIVE ABUNDANCE |
|-----|---------------------------------------|----------------------|
| 51  | 10-80% of Base Peak                   | 28.2                 |
| 68  | Less than 2% of mass 69               | 0.0 (0.0) 1          |
| 69  | Mass 69 Relative abundance            | 33.0                 |
| 70  | Less than 2% of mass 69               | 0.2 (0.5) 1          |
| 127 | 10-80% of Base Peak                   | 42.2                 |
| 197 | Less than 2% of mass 198              | 0.0                  |
| 198 | Base peak                             | 100.0                |
| 199 | 5-9% of mass 198                      | 6.8                  |
| 275 | 10-60% of Base Peak                   | 28.4                 |
| 365 | Greater than 1% of mass 198           | 4.3                  |
| 441 | present but less than 24% of mass 442 | 20.1 (15.8) 2        |
| 442 | Greater than 50% of mass 198          | 127.5                |
| 443 | 15-24% of mass 442                    | 24.6 (19.3) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID          | LAB SAMPLE ID      | LAB FILE ID  | DATE ANALYZED | TIME ANALYZED |
|---------------------------|--------------------|--------------|---------------|---------------|
|                           | CCVIS 480-628363/3 | U331669681.D | 06/01/2022    | 16:06         |
|                           | MB 480-628215/1-A  | U331669682.D | 06/01/2022    | 16:28         |
|                           | LCS 480-628215/2-A | U331669683.D | 06/01/2022    | 16:51         |
| EN10-M-5/25/2022          | 480-198416-1       | U331669699.D | 06/01/2022    | 22:46         |
| FIELD BLANK 5/25/2022     | 480-198416-2       | U331669700.D | 06/01/2022    | 23:08         |
| BLIND DUPLICATE 5/25/2022 | 480-198416-3       | U331669701.D | 06/01/2022    | 23:31         |

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 480-620693/6 Date Analyzed: 04/06/2022 17:48  
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
 Lab File ID (Standard): U33166053.D Heated Purge: (Y/N) N  
 Calibration ID: 43312

|                               | DCBd4            |        |      |      |   |      |
|-------------------------------|------------------|--------|------|------|---|------|
|                               | AREA #           | RT #   | #    | RT # | # | RT # |
| INITIAL CALIBRATION MID-POINT | 385552           | 6.31   |      |      |   |      |
| UPPER LIMIT                   | 771104           | 6.81   |      |      |   |      |
| LOWER LIMIT                   | 192776           | 5.81   |      |      |   |      |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |      |      |   |      |
| ICV 480-620693/9              |                  | 402759 | 6.31 |      |   |      |
| CCVIS 480-628363/3            |                  | 466488 | 6.31 |      |   |      |

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-628363/3 Date Analyzed: 06/01/2022 16:06  
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
 Lab File ID (Standard): U331669681.D Heated Purge: (Y/N) N  
 Calibration ID: 43312

|                    |                              | DCBd4  |      |   |      |   |      |
|--------------------|------------------------------|--------|------|---|------|---|------|
|                    |                              | AREA # | RT # | # | RT # | # | RT # |
| 12/24 HOUR STD     |                              | 466488 | 6.31 |   |      |   |      |
| UPPER LIMIT        |                              | 932976 | 6.81 |   |      |   |      |
| LOWER LIMIT        |                              | 233244 | 5.81 |   |      |   |      |
| LAB SAMPLE ID      | CLIENT SAMPLE ID             |        |      |   |      |   |      |
| MB 480-628215/1-A  |                              | 483946 | 6.31 |   |      |   |      |
| LCS 480-628215/2-A |                              | 462939 | 6.31 |   |      |   |      |
| 480-198416-1       | EN10-M-5/25/2022             | 485807 | 6.31 |   |      |   |      |
| 480-198416-2       | FIELD BLANK<br>5/25/2022     | 476195 | 6.31 |   |      |   |      |
| 480-198416-3       | BLIND DUPLICATE<br>5/25/2022 | 486996 | 6.31 |   |      |   |      |

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EN10-M-5/25/2022 Lab Sample ID: 480-198416-1  
Matrix: Water Lab File ID: U331669699.D  
Analysis Method: 8270D SIM ID Date Collected: 05/25/2022 14:45  
Extract. Method: 3510C Date Extracted: 05/31/2022 16:10  
Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 22:46  
Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 628363 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL  |
|----------|---------------|--------|---|------|------|
| 123-91-1 | 1,4-Dioxane   | 0.21   |   | 0.20 | 0.10 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 36   |   | 15-110 |



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669699.D  
 Lims ID: 480-198416-A-1-A  
 Client ID: EN10-M-5/25/2022  
 Sample Type: Client  
 Inject. Date: 01-Jun-2022 22:46:30 ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-021  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Jun-2022 12:09:43 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1685

First Level Reviewer: quirkp

Date: 02-Jun-2022 12:23:22

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ng/ul | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.411        | 3.403            | 0.008            | 100 | 122155   | 1.78               | 35.6 |       |
| 3 1,4-Dioxane              | 88  | 3.460        | 3.448            | 0.012            | 91  | 1329     | 0.0526             |      |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.309            | 0.004            | 100 | 485807   | 4.00               |      |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_LLIS\_WRK\_00235

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669699.D

Injection Date: 01-Jun-2022 22:46:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-198416-A-1-A

Lab Sample ID: 480-198416-1

Worklist Smp#: 21

Client ID: EN10-M-5/25/2022

Injection Vol: 1.0 ul

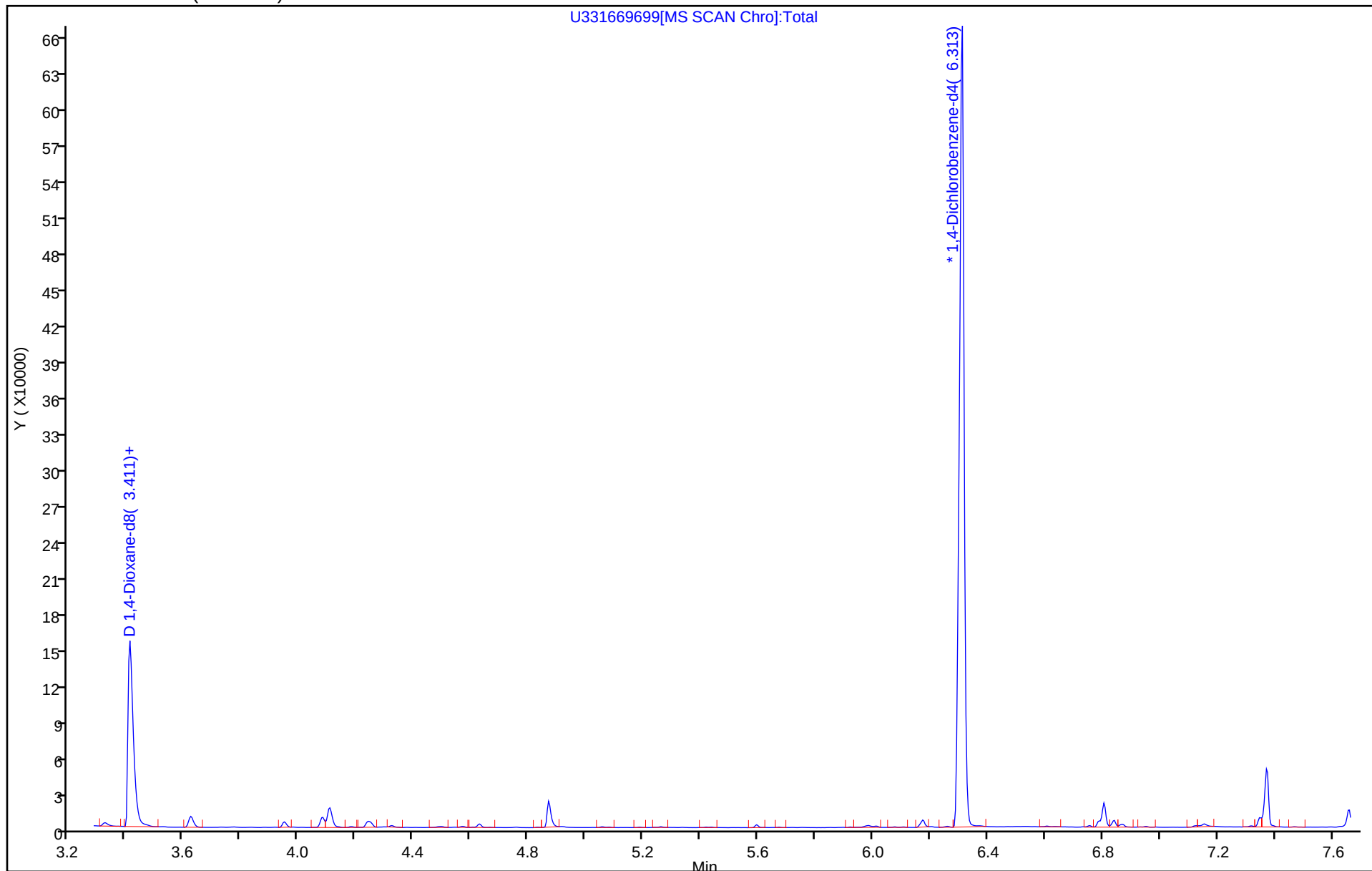
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669699.D

Injection Date: 01-Jun-2022 22:46:30

Instrument ID: HP5973U

Lims ID: 480-198416-A-1-A

Lab Sample ID: 480-198416-1

Client ID: EN10-M-5/25/2022

Operator ID: PJQ

ALS Bottle#: 21

Worklist Smp#: 21

Injection Vol: 1.0 ul

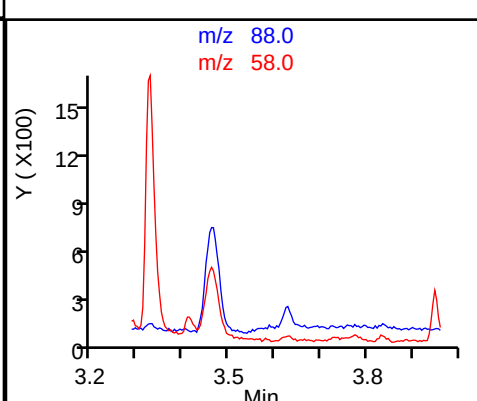
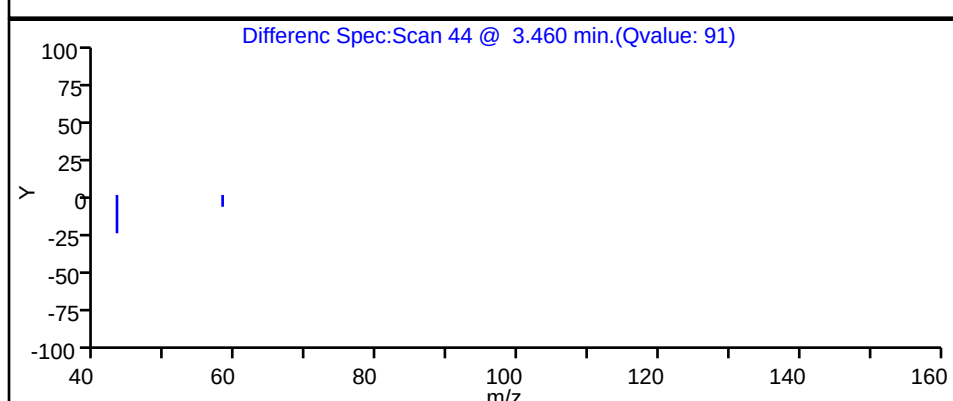
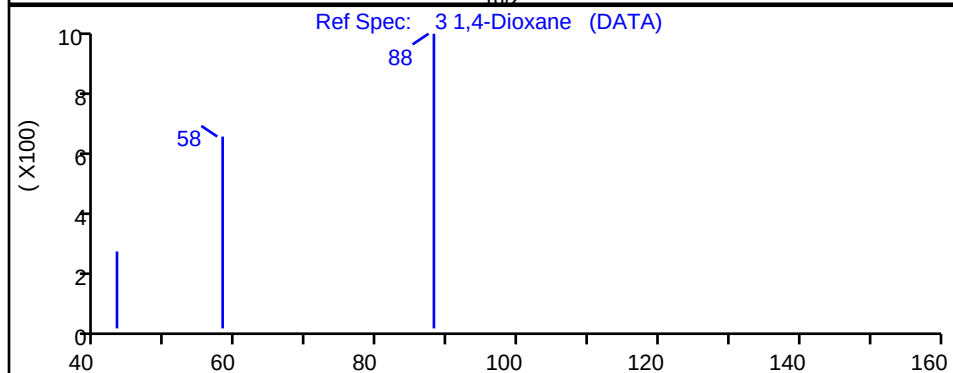
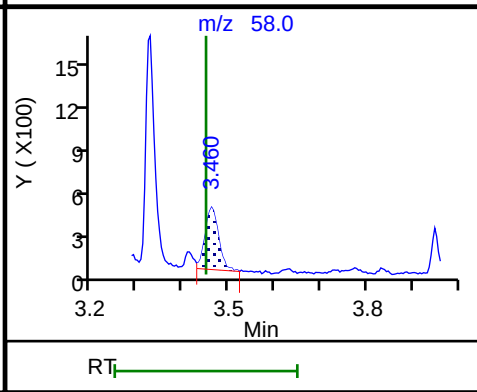
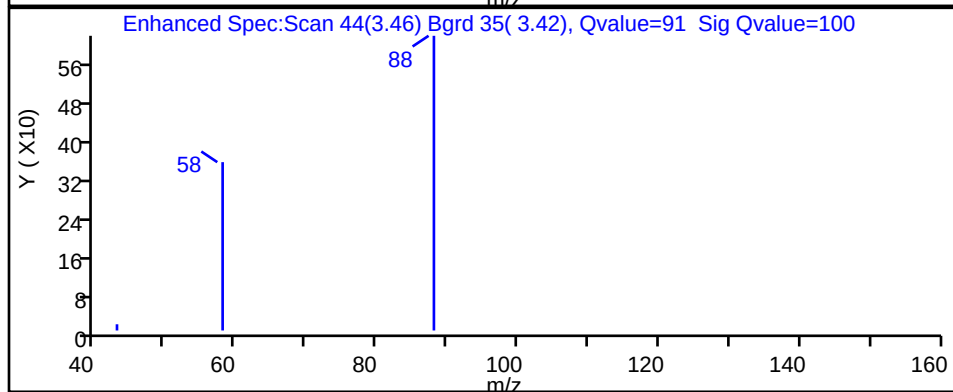
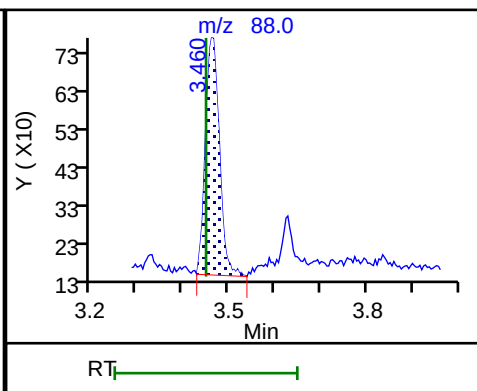
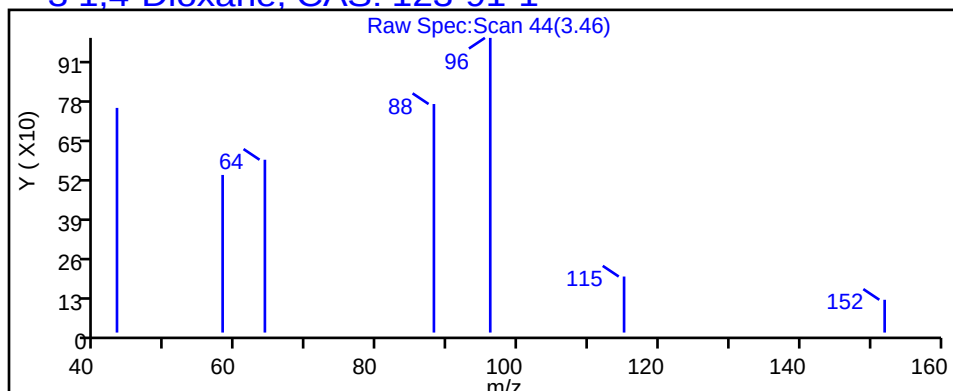
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

**3 1,4-Dioxane, CAS: 123-91-1**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669699.D

Injection Date: 01-Jun-2022 22:46:30

Instrument ID: HP5973U

Lims ID: 480-198416-A-1-A

Lab Sample ID: 480-198416-1

Client ID: EN10-M-5/25/2022

Operator ID: PJQ

ALS Bottle#: 21

Worklist Smp#: 21

Injection Vol: 1.0 ul

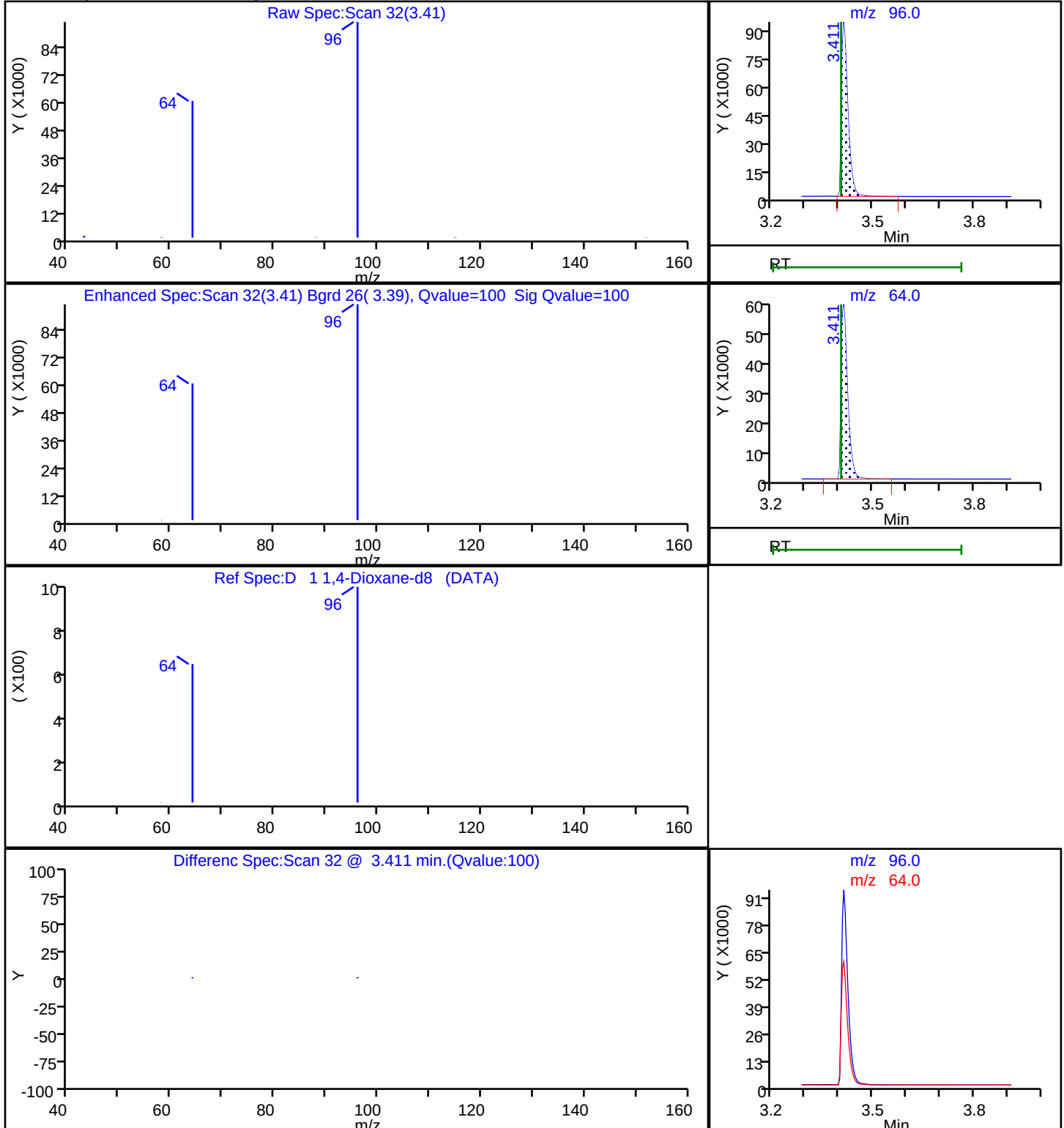
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: FIELD BLANK 5/25/2022 Lab Sample ID: 480-198416-2  
 Matrix: Water Lab File ID: U331669700.D  
 Analysis Method: 8270D SIM ID Date Collected: 05/25/2022 15:00  
 Extract. Method: 3510C Date Extracted: 05/31/2022 16:10  
 Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 23:08  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 628363 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL  |
|----------|---------------|--------|---|------|------|
| 123-91-1 | 1,4-Dioxane   | 0.20   | U | 0.20 | 0.10 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 32   |   | 15-110 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669700.D  
 Lims ID: 480-198416-A-2-A  
 Client ID: FIELD BLANK 5/25/2022  
 Sample Type: Client  
 Inject. Date: 01-Jun-2022 23:08:30 ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-022  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Jun-2022 12:09:43 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1685

First Level Reviewer: quirkp

Date: 02-Jun-2022 12:23:32

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ng/ul | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.415        | 3.403            | 0.012            | 100 | 108738   | 1.62               | 32.3 |       |
| 3 1,4-Dioxane              | 88  |              | 3.448            |                  |     |          | ND                 |      |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.312        | 6.309            | 0.003            | 100 | 476195   | 4.00               |      |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_LLIS\_WRK\_00235

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669700.D

Injection Date: 01-Jun-2022 23:08:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-198416-A-2-A

Lab Sample ID: 480-198416-2

Worklist Smp#: 22

Client ID: FIELD BLANK 5/25/2022

Injection Vol: 1.0 ul

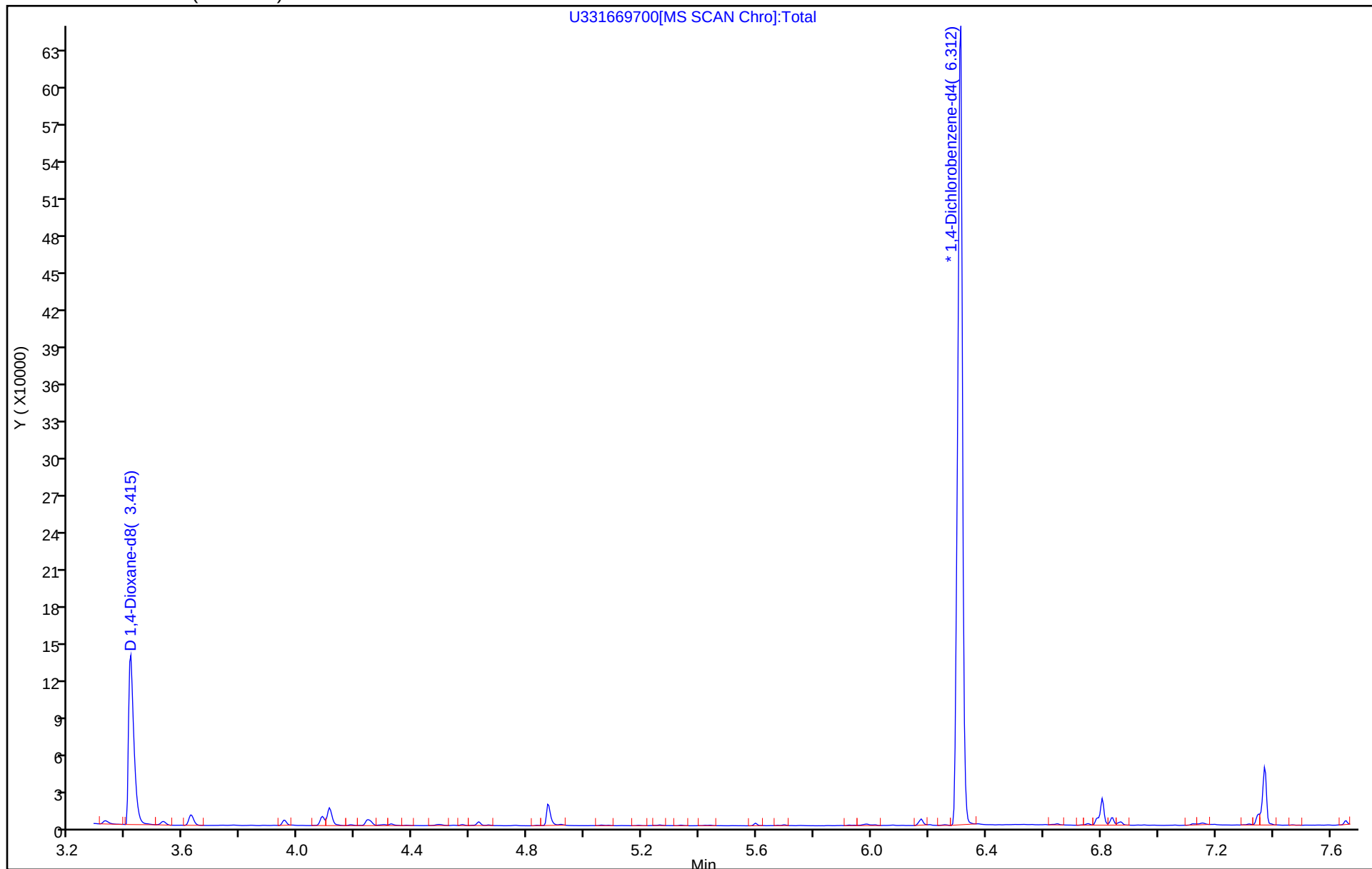
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669700.D

Injection Date: 01-Jun-2022 23:08:30

Instrument ID: HP5973U

Lims ID: 480-198416-A-2-A

Lab Sample ID: 480-198416-2

Client ID: FIELD BLANK 5/25/2022

Operator ID: PJQ

ALS Bottle#: 22

Worklist Smp#: 22

Injection Vol: 1.0 ul

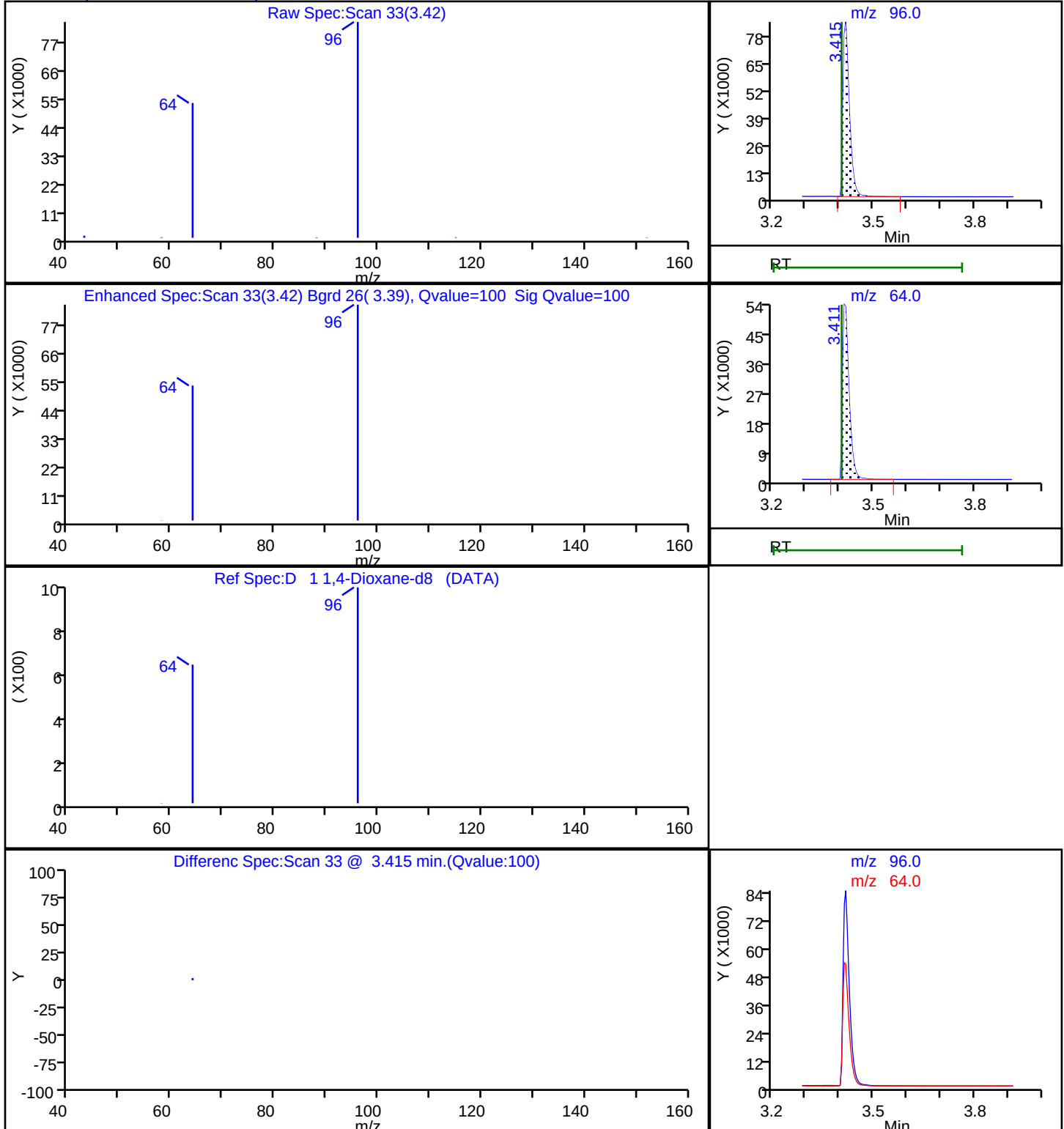
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BLIND DUPLICATE 5/25/2022 Lab Sample ID: 480-198416-3  
 Matrix: Water Lab File ID: U331669701.D  
 Analysis Method: 8270D SIM ID Date Collected: 05/25/2022 00:00  
 Extract. Method: 3510C Date Extracted: 05/31/2022 16:10  
 Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 23:31  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 628363 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL  |
|----------|---------------|--------|---|------|------|
| 123-91-1 | 1,4-Dioxane   | 0.22   |   | 0.20 | 0.10 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 34   |   | 15-110 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669701.D  
 Lims ID: 480-198416-B-3-A  
 Client ID: BLIND DUPLICATE 5/25/2022  
 Sample Type: Client  
 Inject. Date: 01-Jun-2022 23:31:30 ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-023  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Jun-2022 12:09:43 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1685

First Level Reviewer: quirkp

Date: 02-Jun-2022 12:23:43

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ng/ul | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.411        | 3.403            | 0.008            | 99  | 116621   | 1.69               | 33.9 |       |
| 3 1,4-Dioxane              | 88  | 3.464        | 3.448            | 0.016            | 64  | 1305     | 0.0541             |      |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.309            | 0.004            | 100 | 486996   | 4.00               |      |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_LLIS\_WRK\_00235

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 02-Jun-2022 12:23:43

Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669701.D

Injection Date: 01-Jun-2022 23:31:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-198416-B-3-A

Lab Sample ID: 480-198416-3

Worklist Smp#: 23

Client ID: BLIND DUPLICATE 5/25/2022

Injection Vol: 1.0 ul

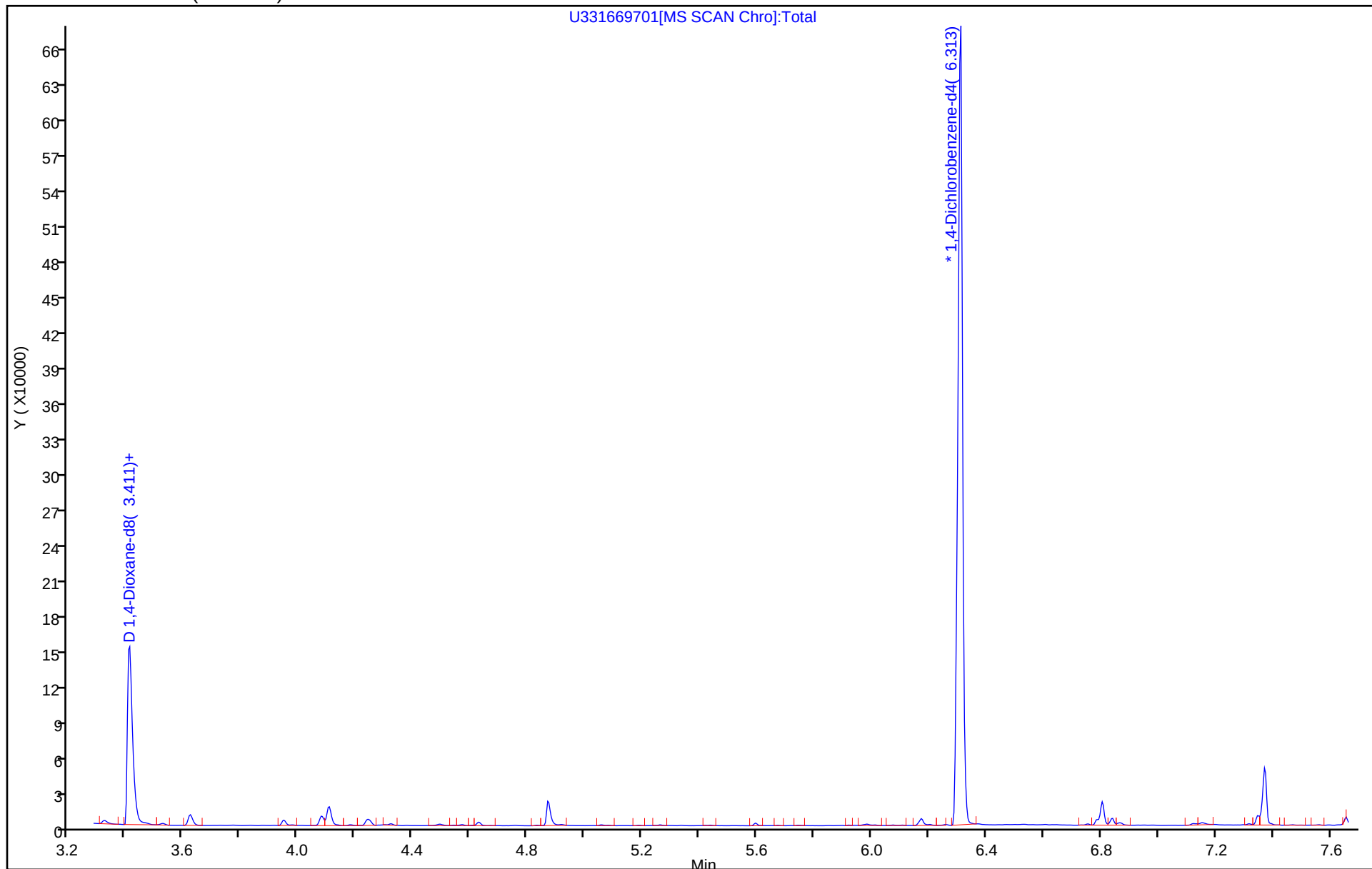
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669701.D

Injection Date: 01-Jun-2022 23:31:30

Instrument ID: HP5973U

Lims ID: 480-198416-B-3-A

Lab Sample ID: 480-198416-3

Client ID: BLIND DUPLICATE 5/25/2022

Operator ID: PJQ

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 1.0 ul

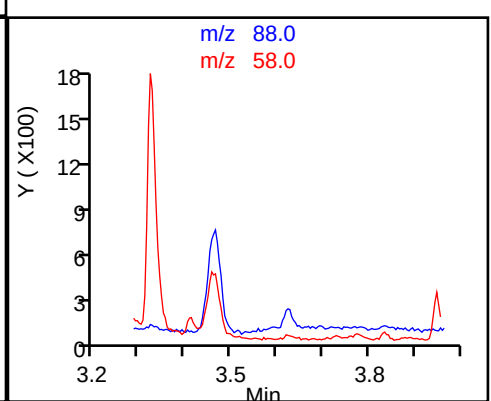
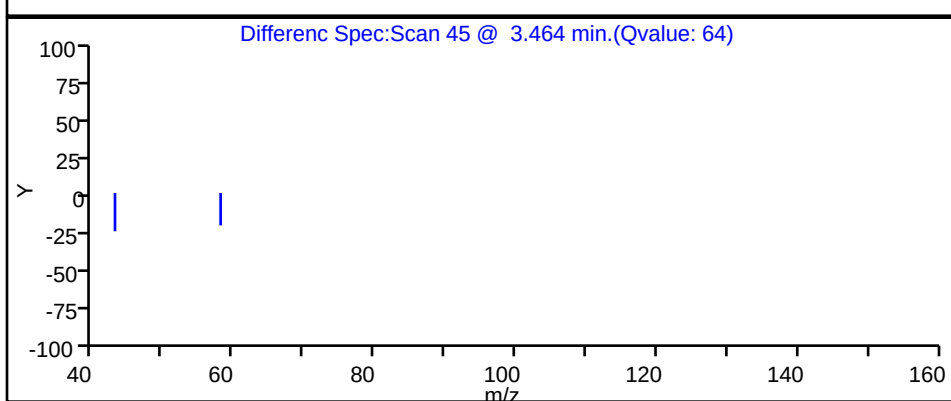
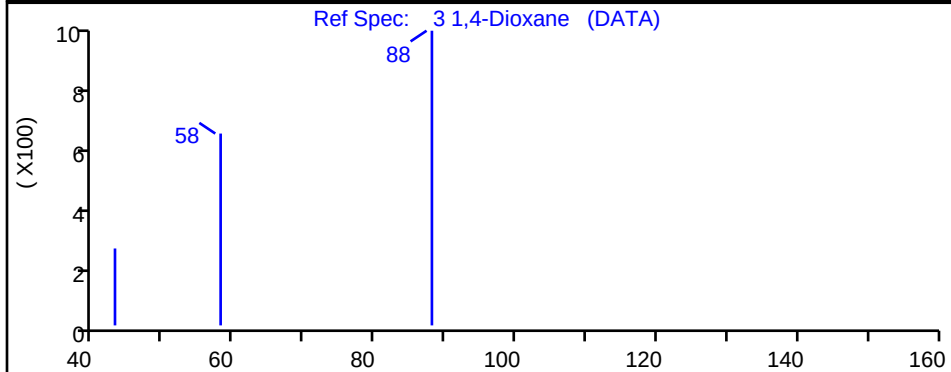
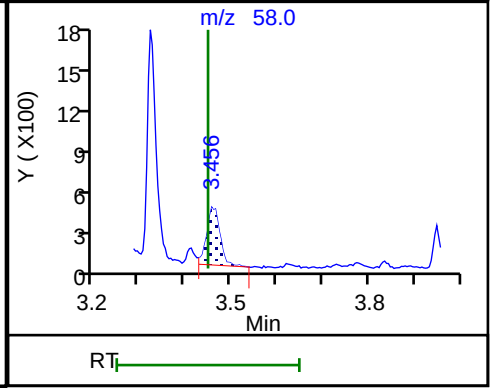
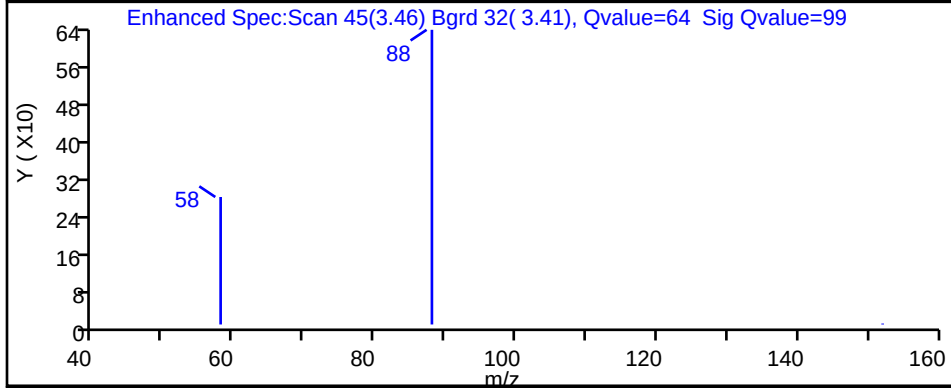
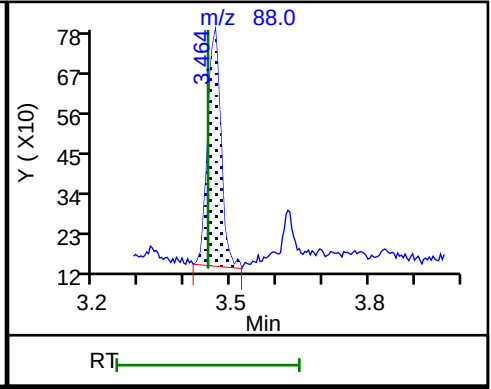
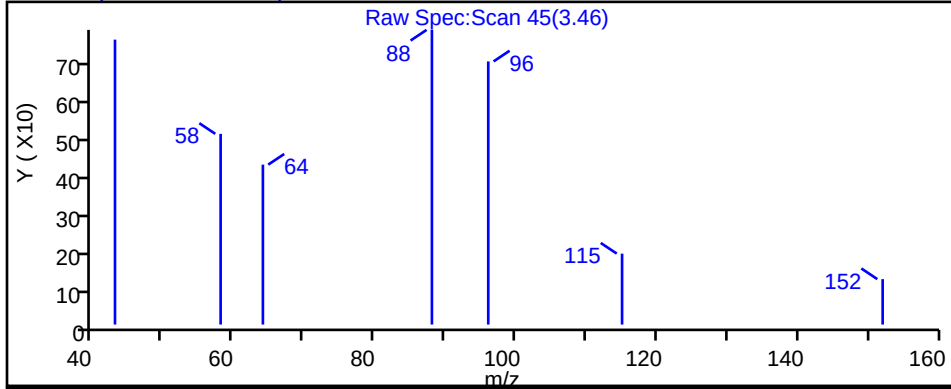
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

**3 1,4-Dioxane, CAS: 123-91-1**

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669701.D

Injection Date: 01-Jun-2022 23:31:30

Instrument ID: HP5973U

Lims ID: 480-198416-B-3-A

Lab Sample ID: 480-198416-3

Client ID: BLIND DUPLICATE 5/25/2022

Operator ID: PJQ

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 1.0 ul

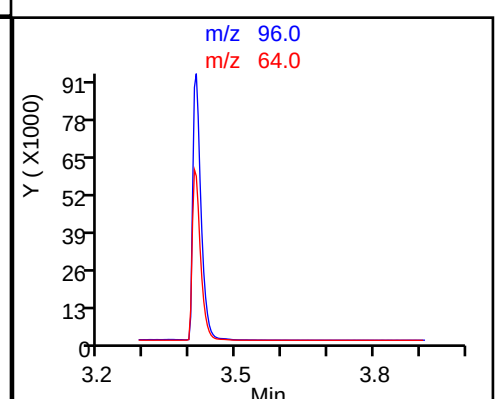
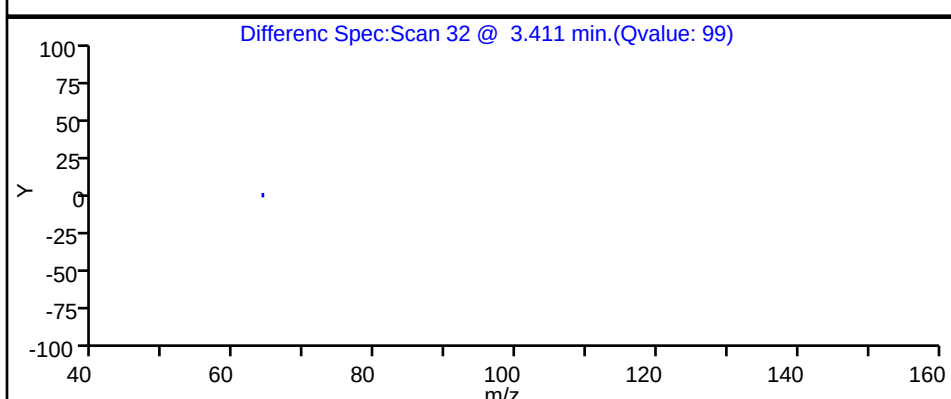
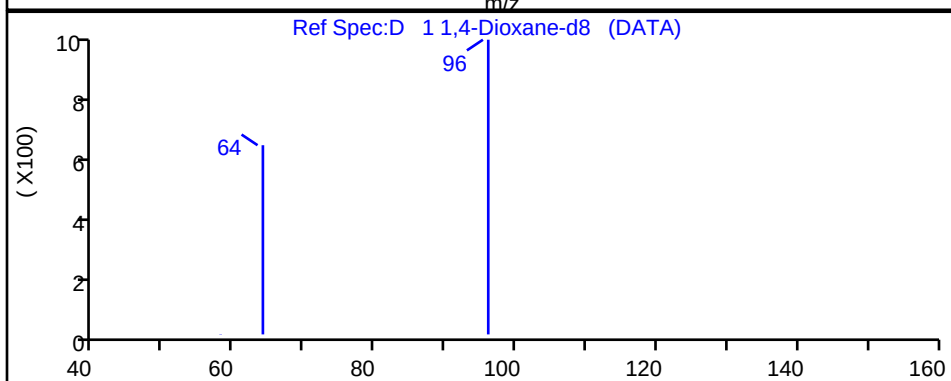
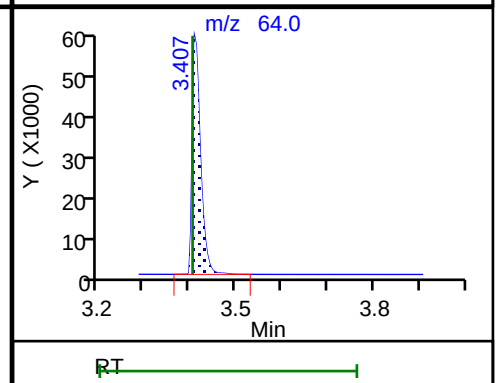
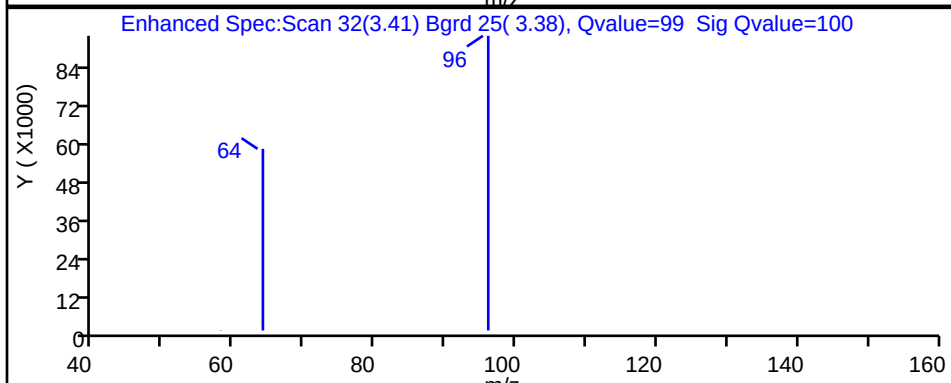
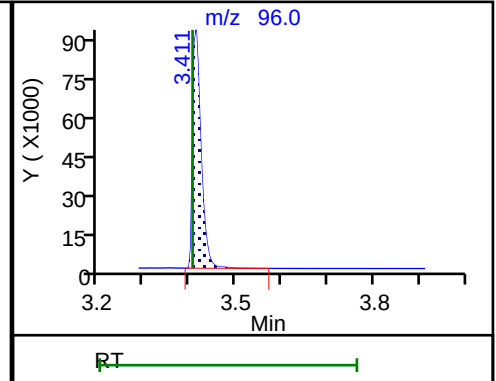
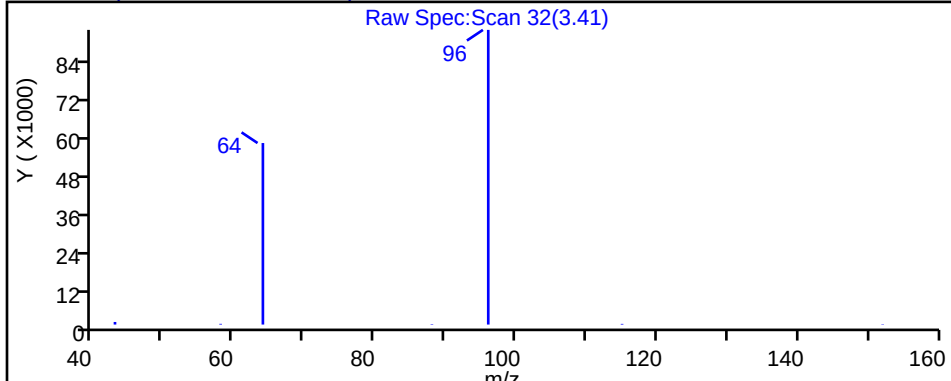
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198416-1 Analy Batch No.: 620693

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/06/2022 16:42 Calibration End Date: 04/06/2022 18:32 Calibration ID: 43312

Calibration Files

|         |                   |              |
|---------|-------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
| Level 1 | IC 480-620693/3   | U33166050.D  |
| Level 2 | IC 480-620693/4   | U33166051.D  |
| Level 3 | IC 480-620693/5   | U33166052.D  |
| Level 4 | ICIS 480-620693/6 | U33166053.D  |
| Level 5 | IC 480-620693/7   | U33166054.D  |
| Level 6 | IC 480-620693/8   | U33166055.D  |

| ANALYTE        | RRF              |        |        |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|----------------|------------------|--------|--------|--------|--------|---------------|-------------|------------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |   |             |               |   |                   |
| 1,4-Dioxane    | 1.0532<br>1.0193 | 1.0320 | 1.0243 | 1.0385 | 1.0370 | AveI<br>D     |             | 1.034<br>0 |    |   | 0.0100  | 1.2  |   | 20.0        |               |   |                   |
| 1,4-Dioxane-d8 | 0.5808<br>0.5138 | 0.5840 | 0.5743 | 0.5691 | 0.5706 | Ave           |             | 0.565<br>4 |    |   | 0.0100  | 4.6  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198416-1 Analy Batch No.: 620693

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/06/2022 16:42 Calibration End Date: 04/06/2022 18:32 Calibration ID: 43312

Calibration Files

|         |                   |              |
|---------|-------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
| Level 1 | IC 480-620693/3   | U33166050.D  |
| Level 2 | IC 480-620693/4   | U33166051.D  |
| Level 3 | IC 480-620693/5   | U33166052.D  |
| Level 4 | ICIS 480-620693/6 | U33166053.D  |
| Level 5 | IC 480-620693/7   | U33166054.D  |
| Level 6 | IC 480-620693/8   | U33166055.D  |

| ANALYTE        | IS<br>REF | CURVE<br>TYPE | RESPONSE         |        |        |        |        | CONCENTRATION (NG/UL) |       |       |       |       |
|----------------|-----------|---------------|------------------|--------|--------|--------|--------|-----------------------|-------|-------|-------|-------|
|                |           |               | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  | LVL 1<br>LVL 6        | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| 1,4-Dioxane    |           | AveI<br>D     | 3025<br>273797   | 11275  | 22157  | 34181  | 44611  | 0.0500<br>5.00        | 0.200 | 0.400 | 0.600 | 0.800 |
| 1,4-Dioxane-d8 | DCBd<br>4 | Ave           | 28722<br>2686089 | 109253 | 216308 | 329142 | 430209 | 0.500<br>50.0         | 2.00  | 4.00  | 6.00  | 8.00  |

Curve Type Legend

Ave = Average ISTD  
AveID = Average isotope dilution

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198416-1 Analy Batch No.: 620693

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/06/2022 16:42 Calibration End Date: 04/06/2022 18:32 Calibration ID: 43312

Calibration Files

|         |                   |              |
|---------|-------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
| Level 1 | IC 480-620693/3   | U33166050.D  |
| Level 2 | IC 480-620693/4   | U33166051.D  |
| Level 3 | IC 480-620693/5   | U33166052.D  |
| Level 4 | ICIS 480-620693/6 | U33166053.D  |
| Level 5 | IC 480-620693/7   | U33166054.D  |
| Level 6 | IC 480-620693/8   | U33166055.D  |

| ANALYTE        | PERCENT ERROR |         |         |         |         |         | PERCENT ERROR LIMIT |       |       |       |       |       |
|----------------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
|                | LVL 1 #       | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1               | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| 1,4-Dioxane    | 1.9           | -0.2    | -0.9    | 0.4     | 0.3     | -1.4    | 30                  | 30    | 30    | 30    | 30    | 30    |
| 1,4-Dioxane-d8 | 2.7           | 3.3     | 1.6     | 0.7     | 0.9     | -9.1    | 30                  | 30    | 30    | 30    | 30    | 30    |



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166050.D  
 Lims ID: IC SIM 0.05  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 06-Apr-2022 16:42:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-003  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:21:01 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:15:56

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.412        | 3.404            | 0.008            | 100 | 28722    | 0.5000           | 0.5136             |       |
| 3 1,4-Dioxane              | 88  | 3.457        | 3.445            | 0.012            | 100 | 3025     | 0.0500           | 0.0509             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.313            | 0.000            | 100 | 395630   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00129

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166050.D

Injection Date: 06-Apr-2022 16:42:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC SIM 0.05

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

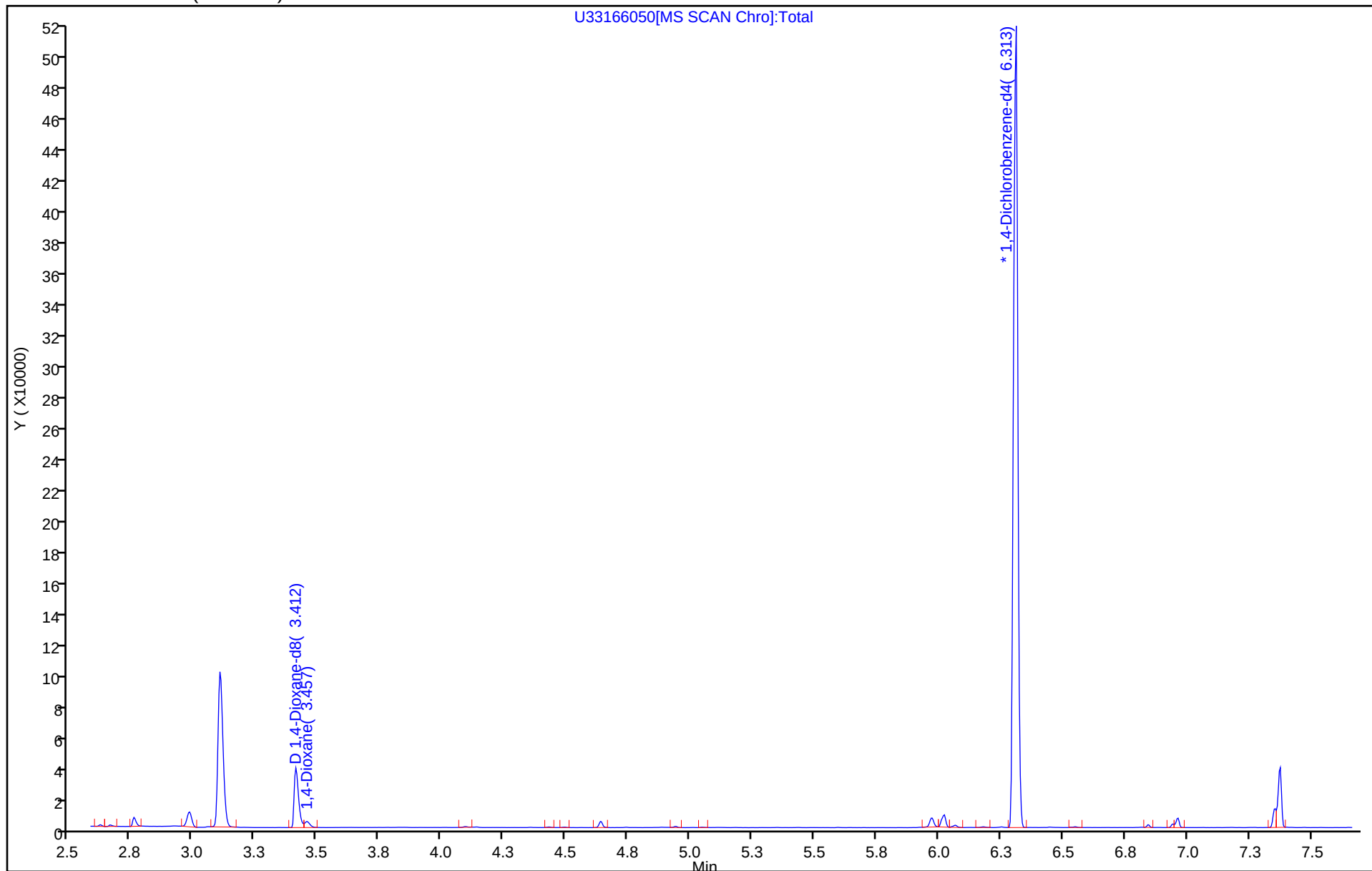
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166051.D  
 Lims ID: IC SIM 0.2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 06-Apr-2022 17:04:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-004  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:21:02 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:16:05

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.408        | 3.404            | 0.004            | 99  | 109253   | 2.00             | 2.07               |       |
| 3 1,4-Dioxane              | 88  | 3.449        | 3.445            | 0.004            | 100 | 11275    | 0.2000           | 0.1996             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.313            | 0.000            | 100 | 374165   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00130

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166051.D

Injection Date: 06-Apr-2022 17:04:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC SIM 0.2

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

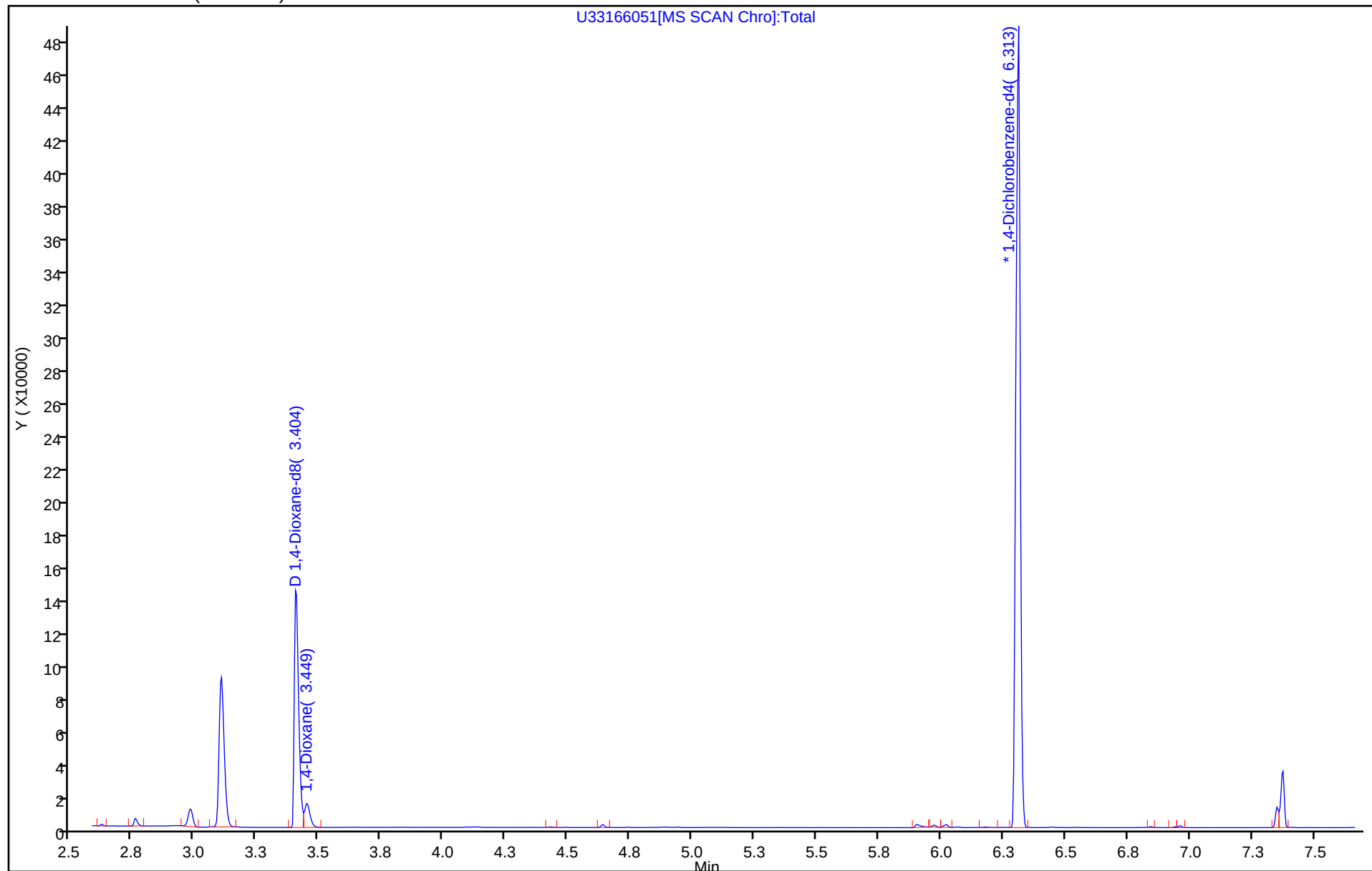
ALS Bottle#: 4

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)

U33166051[MS SCAN Chro]:Total



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166052.D  
 Lims ID: IC SIM 0.4  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 06-Apr-2022 17:26:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-005  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:21:02 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:16:14

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.404        | 3.404            | 0.000            | 99  | 216308   | 4.00             | 4.06               |       |
| 3 1,4-Dioxane              | 88  | 3.449        | 3.449            | 0.000            | 99  | 22157    | 0.4000           | 0.3962             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.313            | 0.000            | 100 | 376664   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00131

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166052.D

Injection Date: 06-Apr-2022 17:26:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC SIM 0.4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

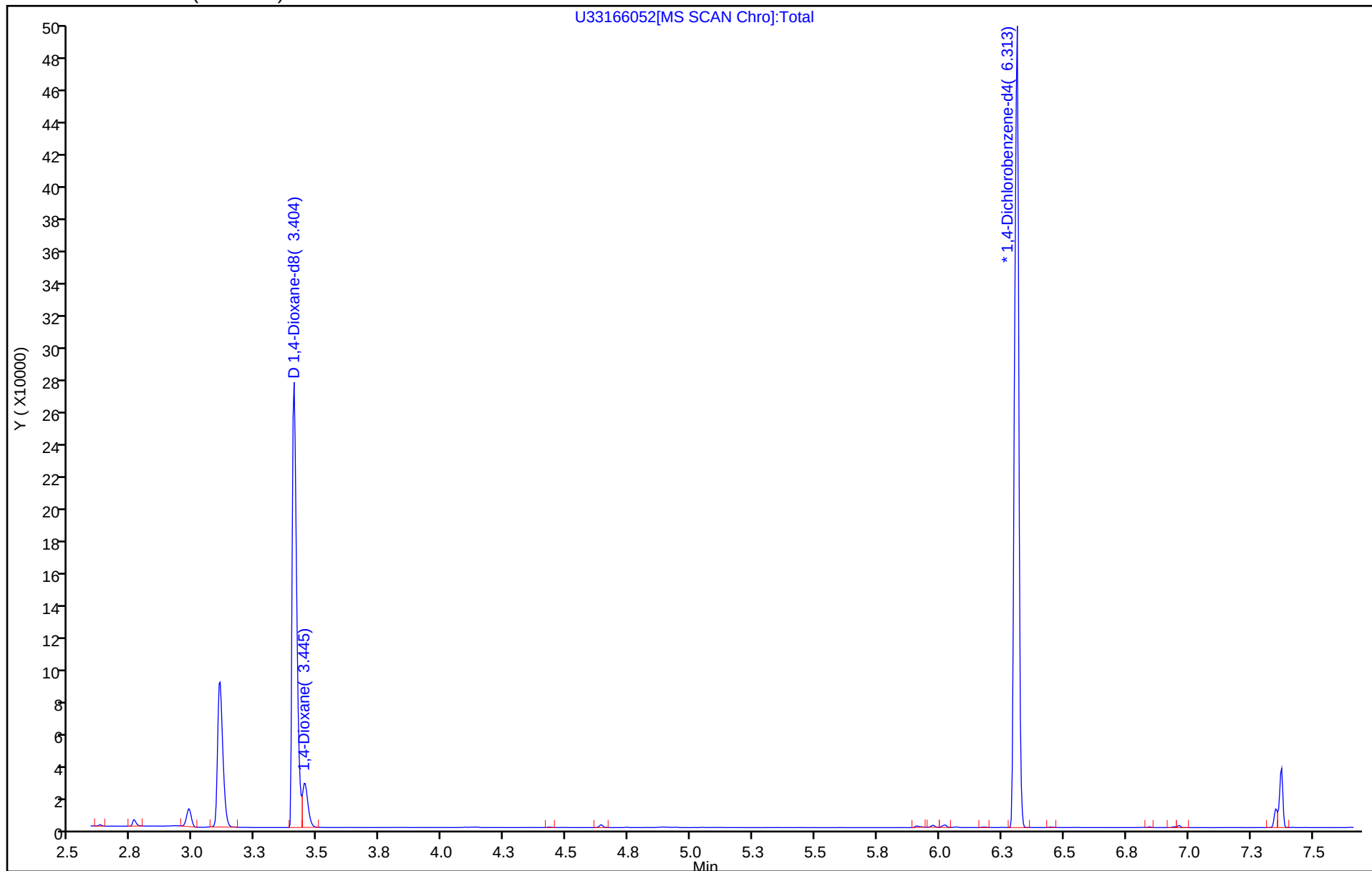
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166053.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 06-Apr-2022 17:48:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-006  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:21:03 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:15:41

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.404        | 3.404            | 0.000            | 99  | 329142   | 6.00             | 6.04               |       |
| 3 1,4-Dioxane              | 88  | 3.449        | 3.449            | 0.000            | 99  | 34181    | 0.6000           | 0.6026             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.314        | 6.314            | 0.000            | 100 | 385552   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00132

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166053.D

Injection Date: 06-Apr-2022 17:48:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: ICIS

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

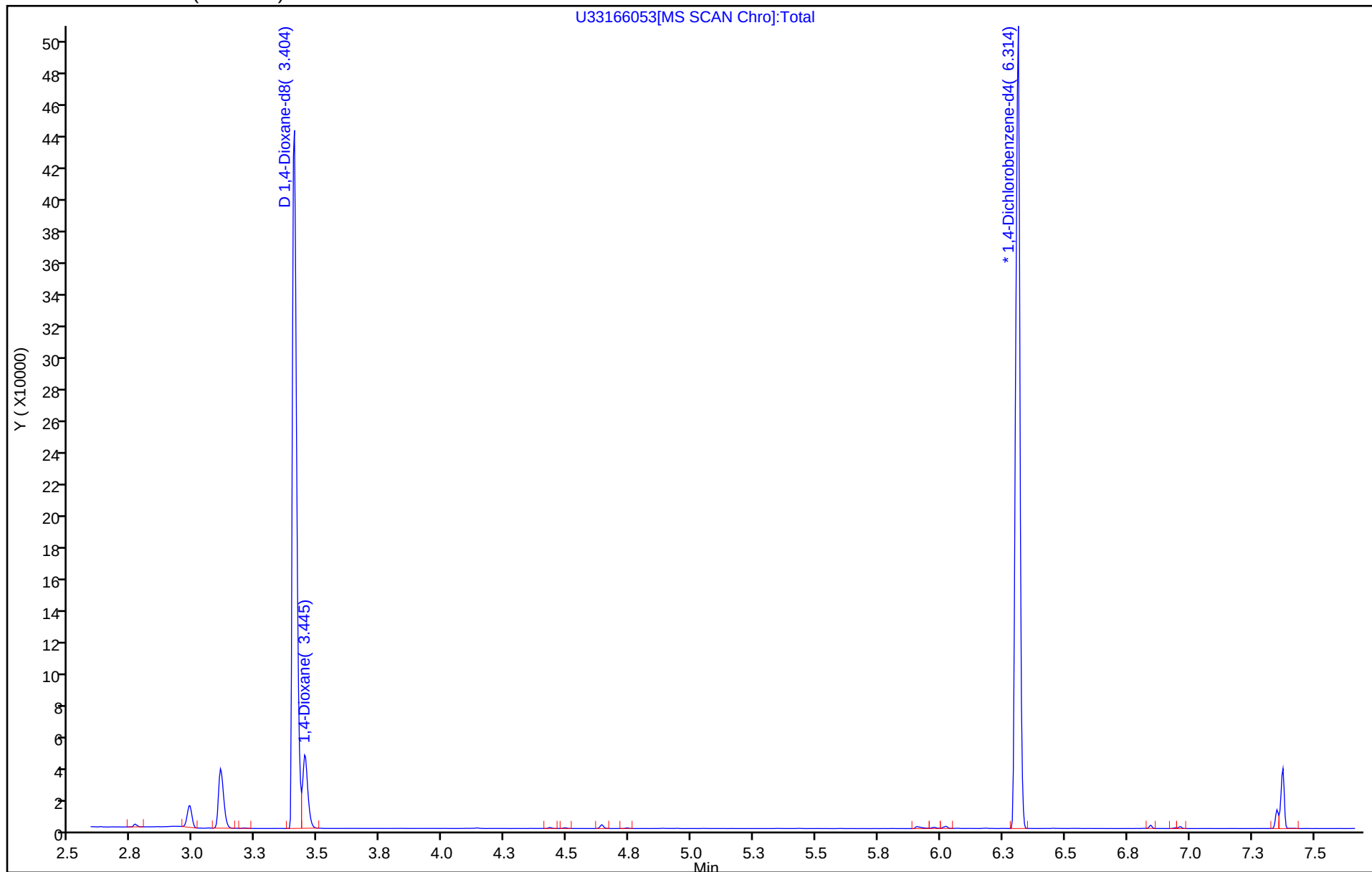
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)





Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166054.D  
 Lims ID: IC SIM 0.8  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 06-Apr-2022 18:09:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-007  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:21:03 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:16:33

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.404            | -0.004           | 100 | 430209   | 8.00             | 8.07               |       |
| 3 1,4-Dioxane              | 88  | 3.445        | 3.449            | -0.004           | 99  | 44611    | 0.8000           | 0.8023             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.314            | -0.001           | 100 | 376964   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00133

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166054.D

Injection Date: 06-Apr-2022 18:09:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC SIM 0.8

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

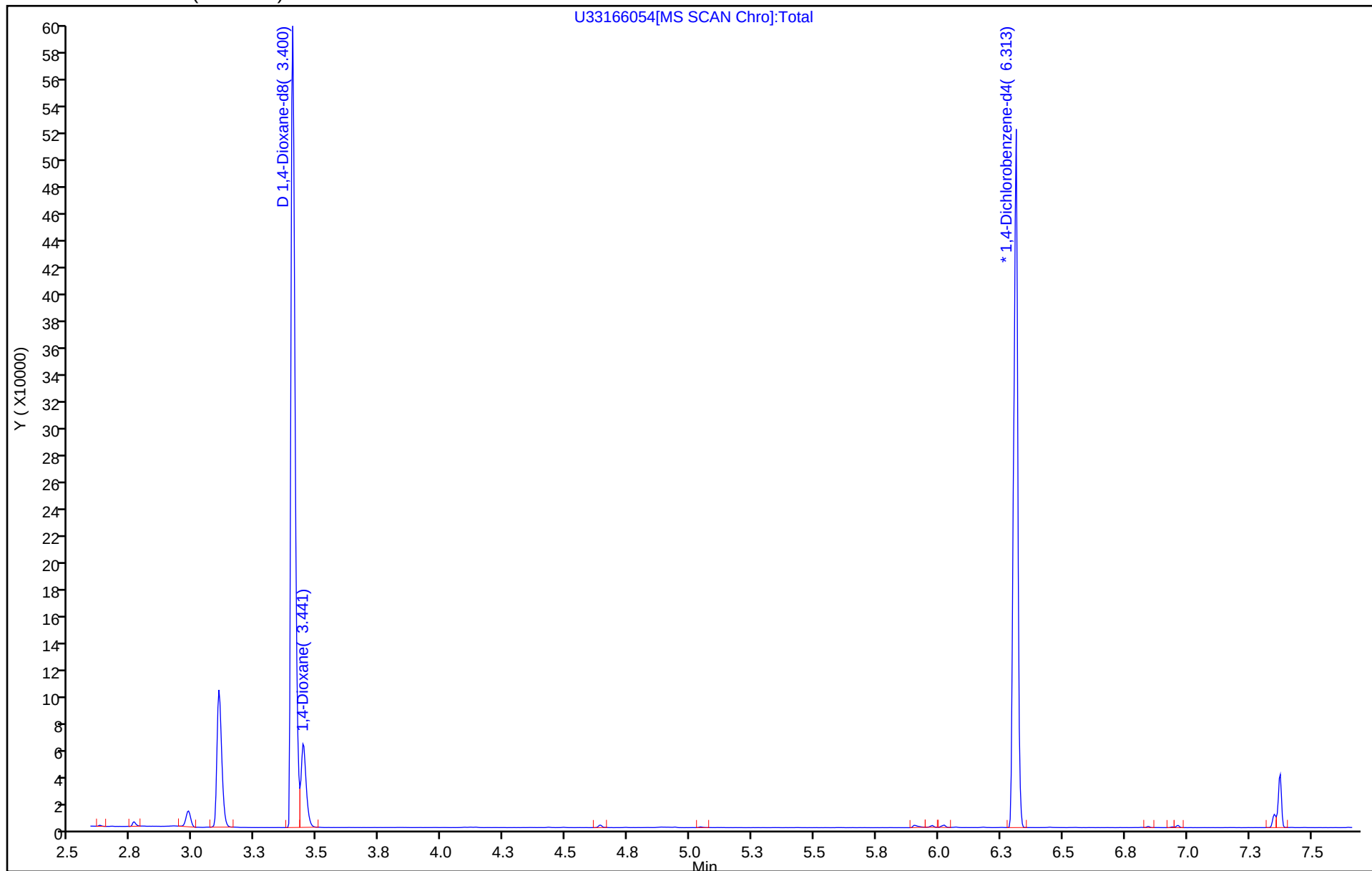
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Lims ID: IC SIM 5  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 06-Apr-2022 18:32:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-008  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:21:04 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:16:46

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.404            | -0.004           | 100 | 2686089  | 50.0             | 45.4               |       |
| 3 1,4-Dioxane              | 88  | 3.437        | 3.449            | -0.012           | 100 | 273797   | 5.00             | 4.93               |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.314            | -0.001           | 100 | 418271   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00134

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Injection Date: 06-Apr-2022 18:32:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC SIM 5

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

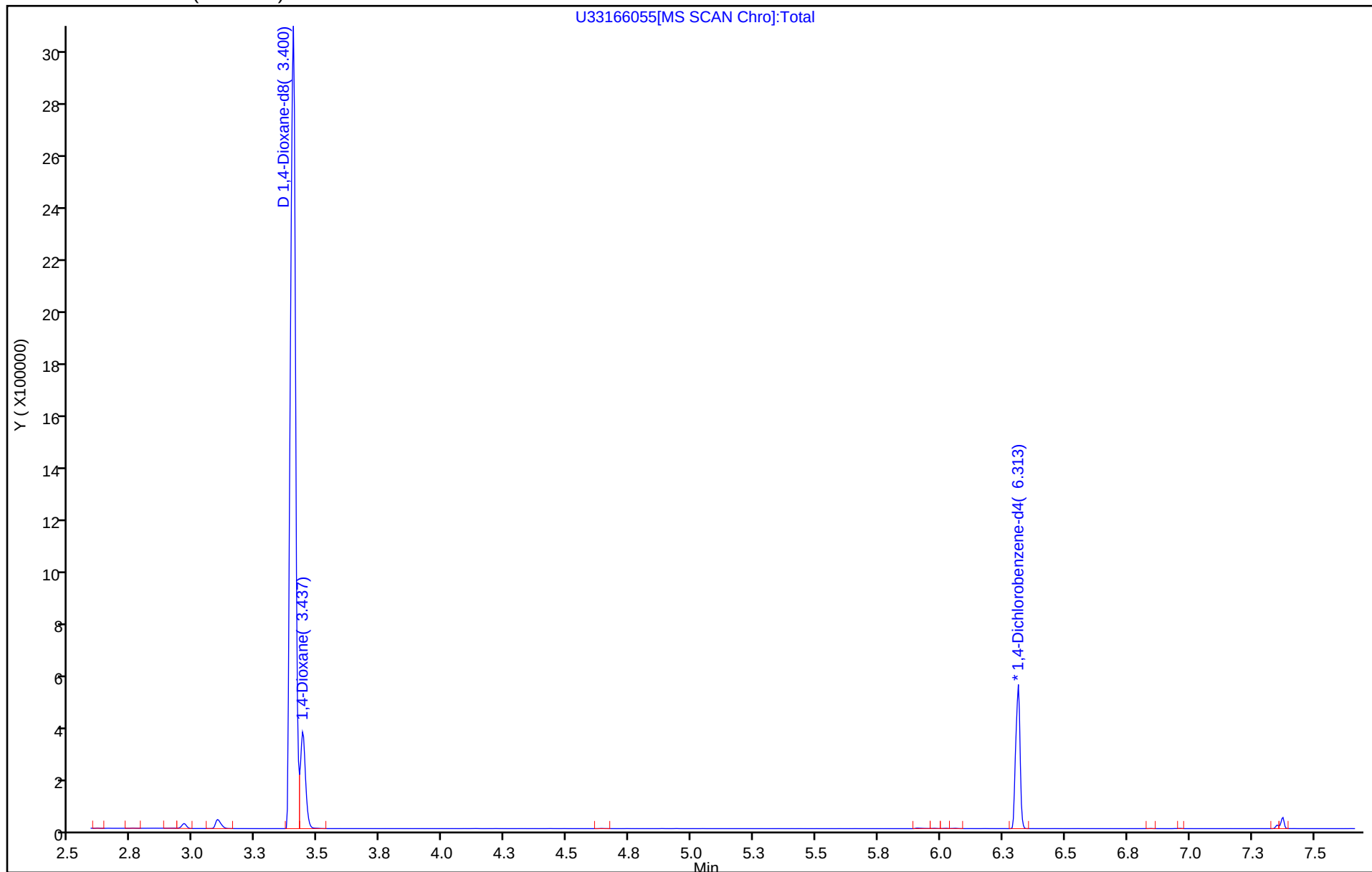
ALS Bottle#: 8

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)

U33166055[MS SCAN Chro]:Total



# Calibration

/ 1,4-Dioxane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

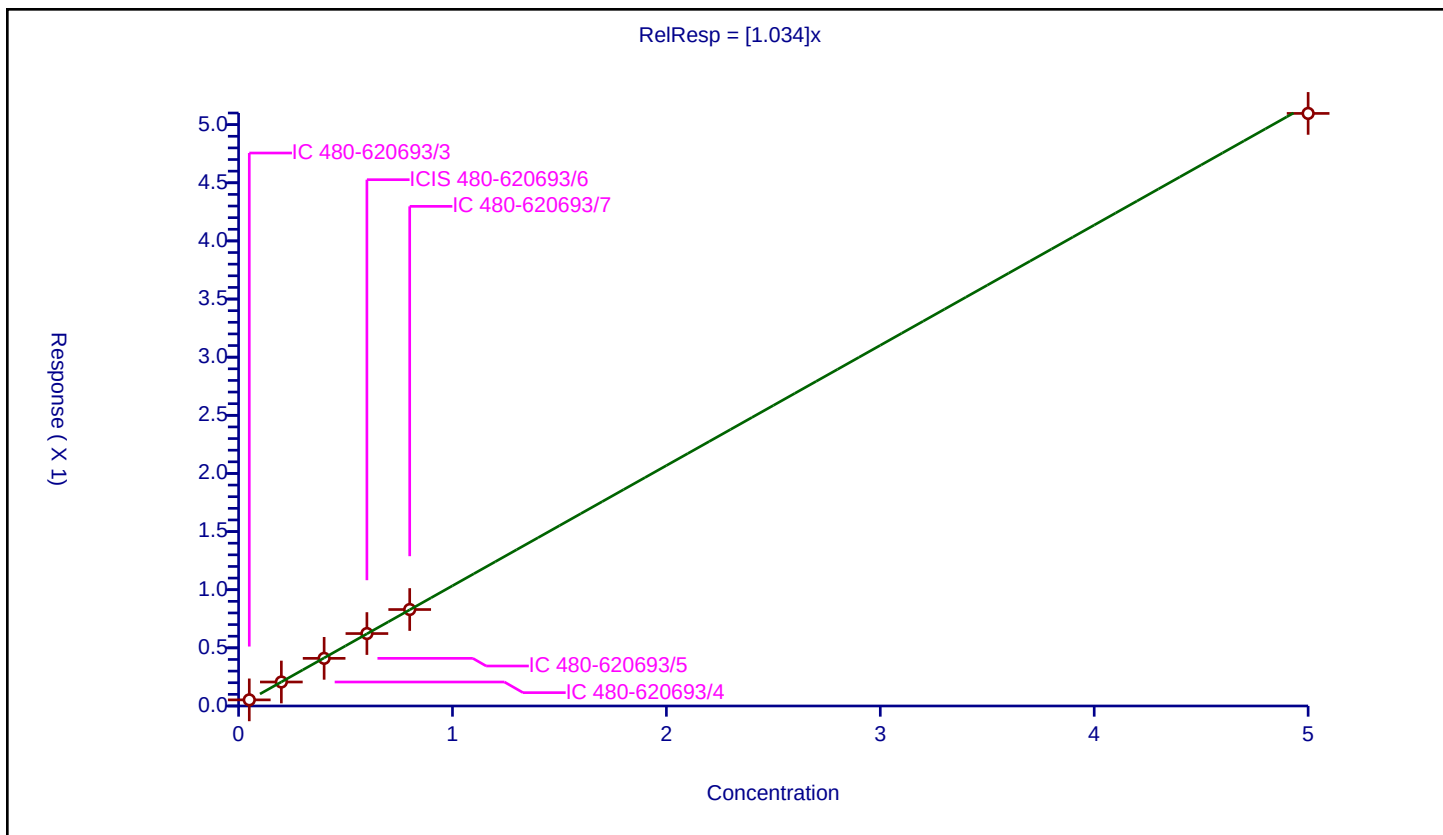
## Curve Coefficients

Intercept: 0  
 Slope: 1.034

## Error Coefficients

Standard Error: 125000  
 Relative Standard Error: 1.2  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 1.000

| ID | Level             | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 480-620693/3   | 0.05          | 0.05266    | 0.5       | 28722.0     | 1.0532   | Y    |
| 2  | IC 480-620693/4   | 0.2           | 0.206402   | 2.0       | 109253.0    | 1.032008 | Y    |
| 3  | IC 480-620693/5   | 0.4           | 0.409731   | 4.0       | 216308.0    | 1.024326 | Y    |
| 4  | ICIS 480-620693/6 | 0.6           | 0.623093   | 6.0       | 329142.0    | 1.038488 | Y    |
| 5  | IC 480-620693/7   | 0.8           | 0.829569   | 8.0       | 430209.0    | 1.036961 | Y    |
| 6  | IC 480-620693/8   | 5.0           | 5.096573   | 50.0      | 2686089.0   | 1.019315 | Y    |



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 480-620693/9 Calibration Date: 04/06/2022 18:54  
Instrument ID: HP5973U Calib Start Date: 04/06/2022 16:42  
GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 04/06/2022 18:32  
Lab File ID: U33166056.D Conc. Units: ug/L

| ANALYTE        | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|----------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,4-Dioxane    | AveID         | 1.034   | 1.049  | 0.0100  | 609            | 600             | 1.5  | 20.0      |
| 1,4-Dioxane-d8 | Ave           | 0.5654  | 0.5534 | 0.0100  | 1470           | 1500            | -2.1 | 20.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166056.D  
 Lims ID: ICV SIM  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 06-Apr-2022 18:54:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-009  
 Operator ID: PJJ Instrument ID: HP5973U  
 Sublist:  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:23:13 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 07-Apr-2022 11:19:34

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.408        | 3.404            | 0.004            | 99  | 83590    | 1.50             | 1.47               |       |
| 3 1,4-Dioxane              | 88  | 3.445        | 3.449            | -0.004           | 100 | 35090    | 0.6000           | 0.6089             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.314            | -0.001           | 100 | 402759   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_SIMSS\_WRK\_00018

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00232

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166056.D

Injection Date: 06-Apr-2022 18:54:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: ICV SIM

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

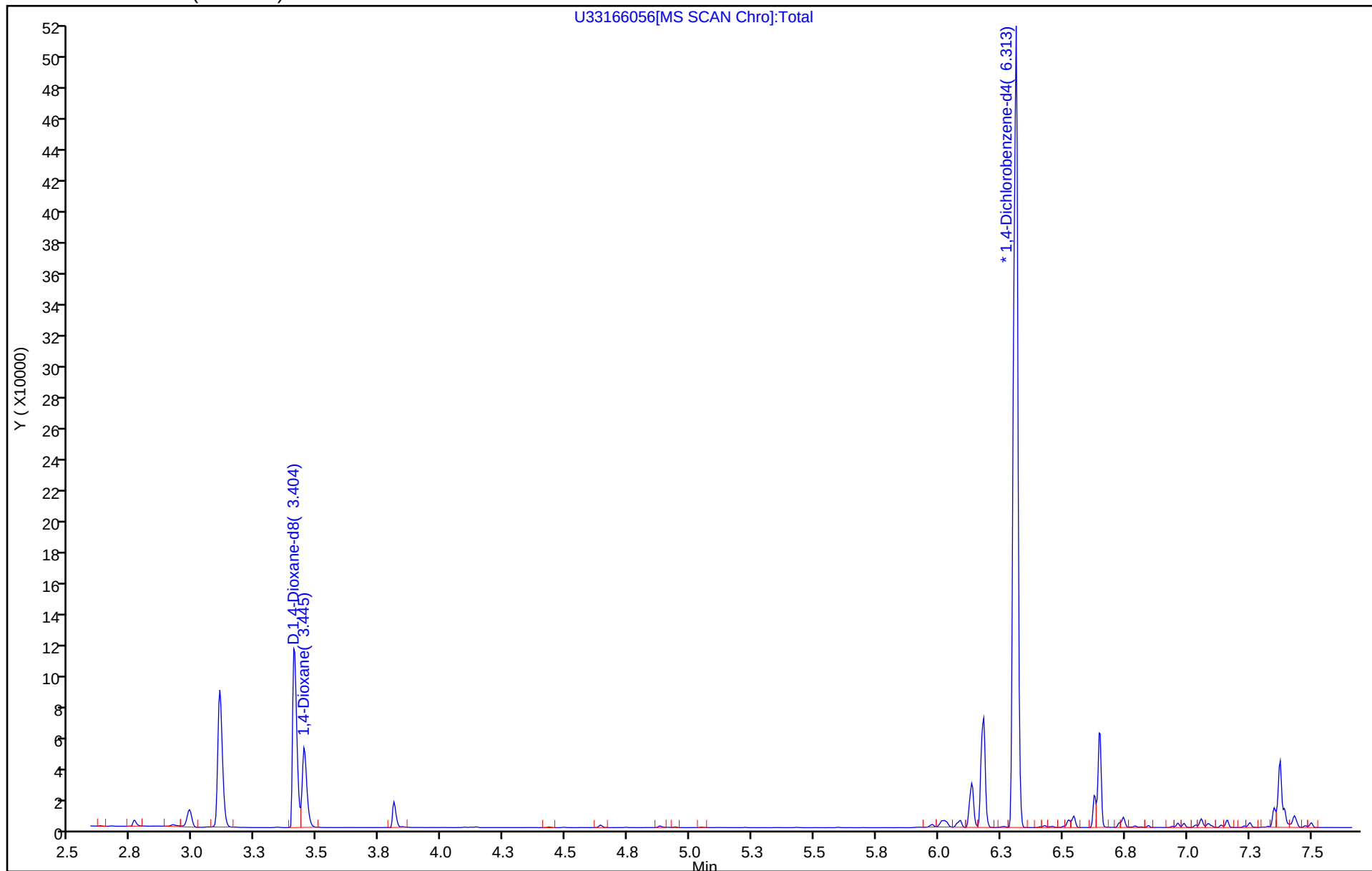
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)





FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 480-628363/3 Calibration Date: 06/01/2022 16:06  
Instrument ID: HP5973U Calib Start Date: 04/06/2022 16:42  
GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 04/06/2022 18:32  
Lab File ID: U331669681.D Conc. Units: ug/L

| ANALYTE        | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|----------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,4-Dioxane    | AveID         | 1.034   | 1.044  | 0.0100  | 606            | 600             | 0.9  | 20.0      |
| 1,4-Dioxane-d8 | Ave           | 0.5654  | 0.5447 | 0.0100  | 5780           | 6000            | -3.7 | 20.0      |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669681.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 01-Jun-2022 16:06:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-003  
 Operator ID: PJQ Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 01-Jun-2022 16:20:08 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1631

First Level Reviewer: quirkp

Date: 01-Jun-2022 16:20:08

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.403        | 3.403            | 0.000            | 99  | 381164   | 6.00             | 5.78               |       |
| 3 1,4-Dioxane              | 88  | 3.448        | 3.448            | 0.000            | 99  | 39778    | 0.6000           | 0.6055             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.309        | 6.309            | 0.000            | 100 | 466488   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_1,4SIM\_WRK\_00135

Amount Added: 1.00

Units: mL

MB\_LLIS\_WRK\_00235

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669681.D

Injection Date: 01-Jun-2022 16:06:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

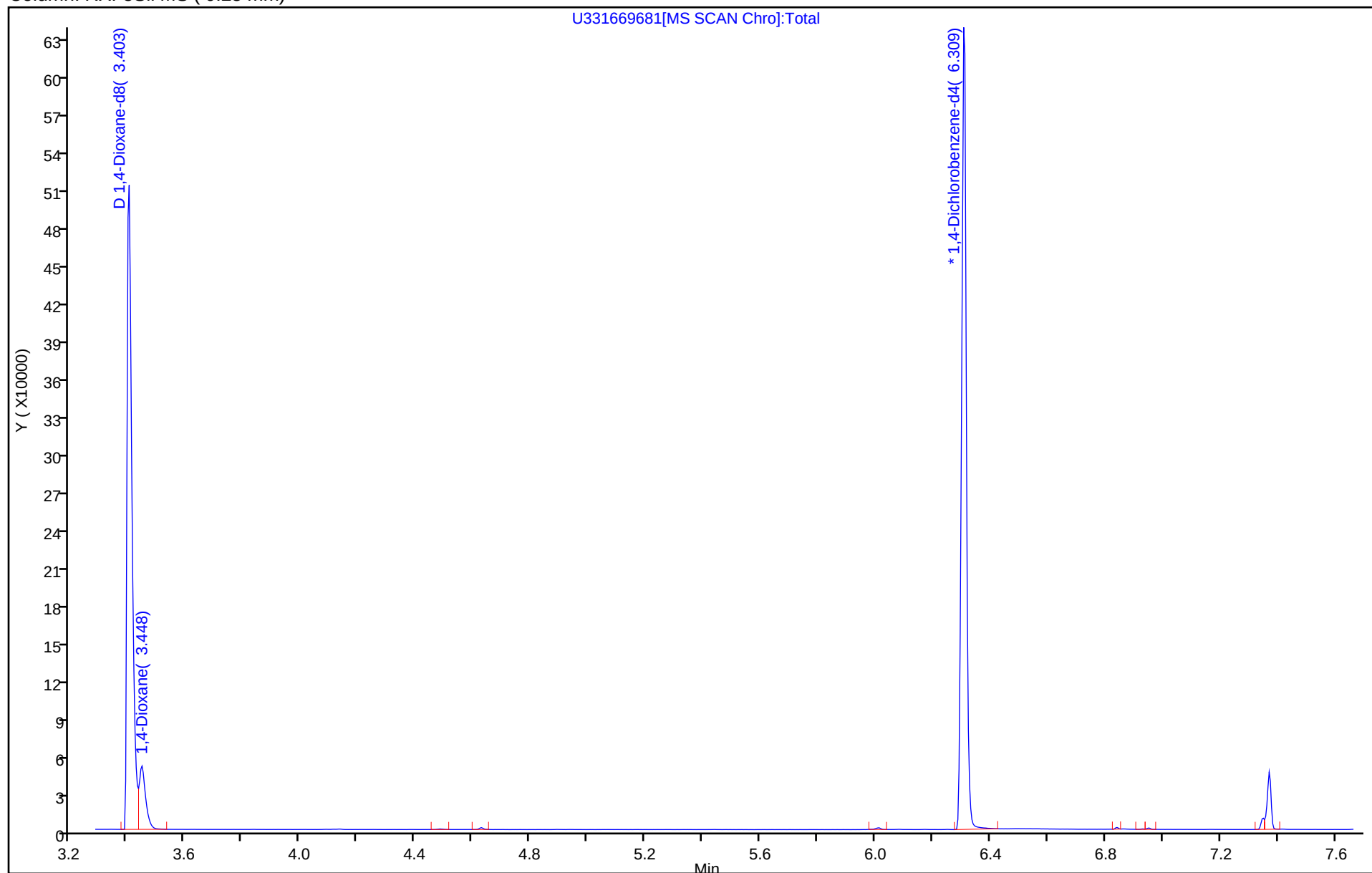
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 06-Apr-2022 16:12:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0104766-002  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 07-Apr-2022 11:23:13 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: Deconvolution ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1617

First Level Reviewer: quirkp

Date: 06-Apr-2022 16:36:22

| Compound   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 4 DFTPP    |     |              |                  |                  |    |          |                  |                    |       |
| 7 4,4'-DDE | 246 | 11.186       | 11.186           | 0.000            | 0  | 1631     |                  |                    | NR    |
| 5 4,4'-DDD | 235 | 11.491       | 11.491           | 0.000            | 98 | 10697    |                  |                    | NR    |
| 6 4,4'-DDT | 235 | 11.790       | 11.790           | 0.000            | 99 | 2257919  | NR               |                    | NR    |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

MB\_DFTPP\_WRK\_00404

Amount Added: 1.00

Units: mL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D

Injection Date: 06-Apr-2022 16:12:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

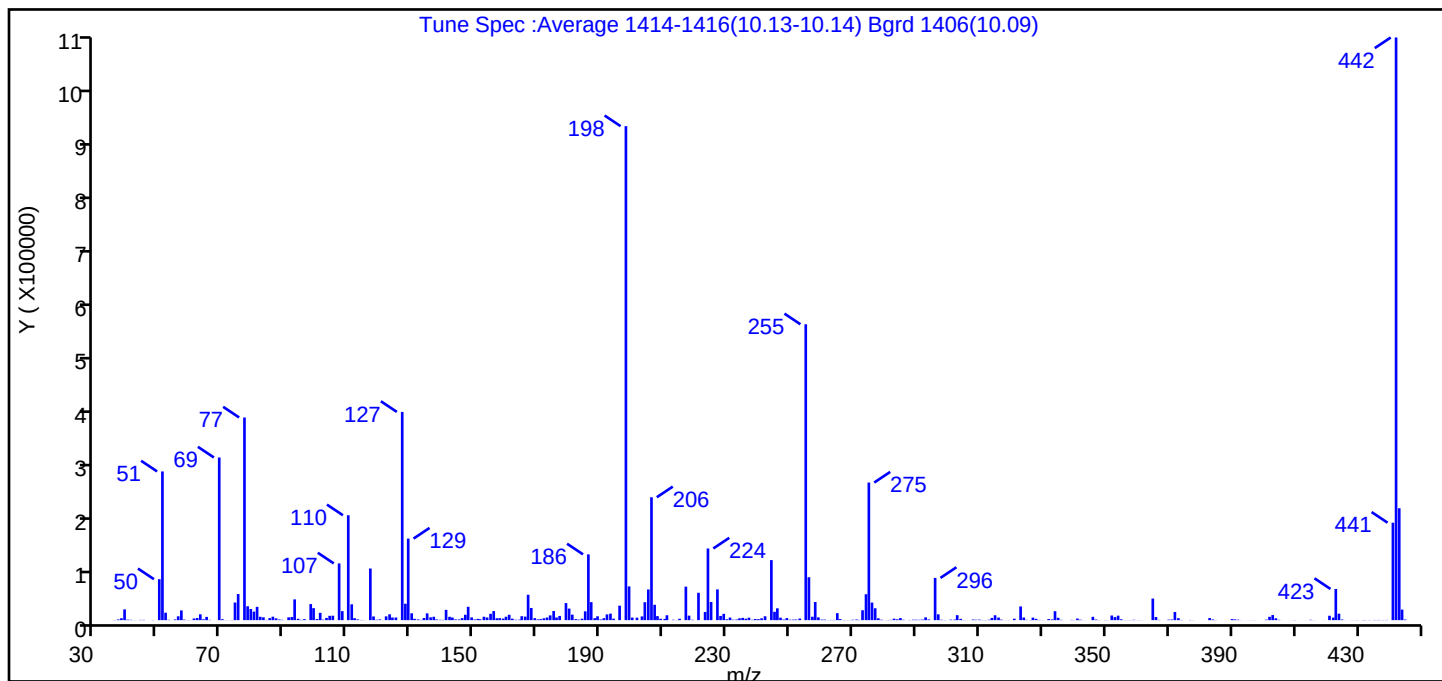
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Tune Method: DFTPP Method 8270D, BP 198

## 4 DFTPP



| m/z | Ion Abundance Criteria       | % Relative Abundance |
|-----|------------------------------|----------------------|
| 198 | base peak, or >50% of 442    | 100.0 (84.8)         |
| 51  | 10-80% of the base peak      | 30.1                 |
| 68  | <2% of mass 69               | 0.0 (0.0)            |
| 69  | Present                      | 32.9                 |
| 70  | <2% of mass 69               | 0.2 (0.6)            |
| 127 | 10-80% of the base peak      | 42.2                 |
| 197 | <2% of mass 198              | 0.0                  |
| 199 | 5-9% of mass 198             | 6.8                  |
| 275 | 10-60% of the base peak      | 27.9                 |
| 365 | >1% of mass 198              | 4.4                  |
| 441 | present but <24% of mass 442 | 19.7 (16.7)          |
| 442 | base peak, or >50% of 198    | 118.0                |
| 443 | 15-24% of mass 442           | 22.7 (19.2)          |

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D\1,4\_Dx\_SIM\_HP5973U.rslt\sp  
Injection Date: 06-Apr-2022 16:12:30  
Spectrum: Tune Spec :Average 1414-1416(10.13-10.14) Bgrd 1406(10.09)  
Base Peak: 442.10  
Minimum % Base Peak: 0  
Number of Points: 360

| m/z   | Y      | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.00 | 233    | 137.00 | 5827  | 236.00 | 2541   | 330.00 | 151   |
| 37.00 | 1220   | 138.00 | 1212  | 237.00 | 4211   | 332.00 | 1849  |
| 38.00 | 3300   | 139.00 | 702   | 238.00 | 658    | 333.00 | 1314  |
| 39.00 | 18528  | 140.00 | 482   | 239.00 | 1997   | 334.00 | 15423 |
| 40.00 | 885    | 141.00 | 17712 | 240.00 | 1683   | 335.00 | 4071  |
| 41.00 | 547    | 142.00 | 5768  | 241.00 | 3139   | 336.00 | 504   |
| 42.00 | 137    | 143.00 | 4466  | 242.00 | 6702   | 337.00 | 38    |
| 43.00 | 108    | 144.00 | 1276  | 244.00 | 103576 | 339.00 | 400   |
| 44.00 | 410    | 145.00 | 1188  | 245.00 | 14423  | 340.00 | 178   |
| 45.00 | 468    | 146.00 | 3539  | 246.00 | 20392  | 341.00 | 2773  |
| 48.00 | 240    | 147.00 | 9303  | 247.00 | 4231   | 342.00 | 747   |
| 50.00 | 70624  | 148.00 | 23040 | 248.00 | 985    | 343.00 | 127   |
| 51.00 | 256512 | 149.00 | 4732  | 249.00 | 3565   | 344.00 | 47    |
| 52.00 | 12868  | 150.00 | 1247  | 250.00 | 733    | 346.00 | 5735  |
| 53.00 | 500    | 151.00 | 2198  | 251.00 | 923    | 347.00 | 1122  |
| 54.00 | 46     | 152.00 | 1506  | 252.00 | 1054   | 348.00 | 170   |
| 55.00 | 1225   | 153.00 | 5863  | 253.00 | 2755   | 350.00 | 293   |
| 56.00 | 6663   | 154.00 | 4590  | 255.00 | 510336 | 351.00 | 91    |
| 57.00 | 16744  | 155.00 | 10954 | 256.00 | 74024  | 352.00 | 7970  |
| 58.00 | 885    | 156.00 | 15629 | 257.00 | 5900   | 353.00 | 5197  |
| 59.00 | 259    | 157.00 | 3301  | 258.00 | 31288  | 354.00 | 7727  |
| 60.00 | 184    | 158.00 | 3426  | 259.00 | 4782   | 355.00 | 1523  |
| 61.00 | 2840   | 159.00 | 2720  | 260.00 | 899    | 356.00 | 200   |
| 62.00 | 3697   | 160.00 | 5887  | 261.00 | 914    | 357.00 | 173   |
| 63.00 | 10066  | 161.00 | 9238  | 262.00 | 190    | 358.00 | 228   |
| 64.00 | 1497   | 162.00 | 2516  | 263.00 | 358    | 359.00 | 629   |
| 65.00 | 5617   | 163.00 | 718   | 264.00 | 447    | 360.00 | 119   |
| 66.00 | 465    | 164.00 | 897   | 265.00 | 12042  | 361.00 | 163   |
| 69.00 | 280576 | 165.00 | 6795  | 266.00 | 1787   | 362.00 | 79    |
| 70.00 | 1623   | 166.00 | 6077  | 267.00 | 282    | 363.00 | 43    |
| 71.00 | 173    | 167.00 | 43768 | 268.00 | 189    | 365.00 | 37192 |
| 72.00 | 150    | 168.00 | 21008 | 269.00 | 164    | 366.00 | 5398  |
| 73.00 | 296    | 169.00 | 3387  | 270.00 | 711    | 367.00 | 408   |

Data File:

\\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D\1,4\_Dx\_SIM\_HP5973U.rsl\sp

Injection Date:

06-Apr-2022 16:12:30

Spectrum:

Tune Spec :Average 1414-1416(10.13-10.14) Bgrd 1406(10.09)

Base Peak:

442.10

Minimum % Base Peak: 0

Number of Points: 360

| m/z    | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 74.00  | 30368  | 170.00 | 1309   | 271.00 | 1114   | 370.00 | 854   |
| 75.00  | 45048  | 171.00 | 1683   | 272.00 | 360    | 371.00 | 1105  |
| 77.00  | 349568 | 172.00 | 3229   | 273.00 | 17096  | 372.00 | 14138 |
| 78.00  | 23984  | 173.00 | 4586   | 274.00 | 44688  | 373.00 | 3370  |
| 79.00  | 19296  | 174.00 | 8212   | 275.00 | 237312 | 374.00 | 393   |
| 80.00  | 14750  | 175.00 | 15729  | 276.00 | 30280  | 377.00 | 344   |
| 81.00  | 22912  | 176.00 | 4561   | 277.00 | 20488  | 378.00 | 148   |
| 82.00  | 5769   | 177.00 | 7243   | 278.00 | 3215   | 383.00 | 3601  |
| 83.00  | 4882   | 179.00 | 29432  | 279.00 | 725    | 384.00 | 1154  |
| 84.00  | 389    | 180.00 | 19960  | 280.00 | 124    | 385.00 | 299   |
| 85.00  | 3427   | 181.00 | 9464   | 281.00 | 237    | 390.00 | 1824  |
| 86.00  | 5961   | 182.00 | 1713   | 282.00 | 533    | 391.00 | 1304  |
| 87.00  | 3068   | 183.00 | 912    | 283.00 | 2518   | 392.00 | 855   |
| 88.00  | 1148   | 184.00 | 2489   | 284.00 | 1496   | 393.00 | 156   |
| 89.00  | 576    | 185.00 | 15216  | 285.00 | 3505   | 395.00 | 110   |
| 90.00  | 54     | 186.00 | 113448 | 286.00 | 628    | 396.00 | 106   |
| 91.00  | 4847   | 187.00 | 31056  | 287.00 | 36     | 397.00 | 153   |
| 92.00  | 5357   | 188.00 | 3361   | 288.00 | 329    | 398.00 | 72    |
| 93.00  | 35840  | 189.00 | 6626   | 289.00 | 797    | 401.00 | 866   |
| 94.00  | 2344   | 190.00 | 1084   | 290.00 | 749    | 402.00 | 5790  |
| 95.00  | 544    | 191.00 | 3323   | 291.00 | 615    | 403.00 | 8752  |
| 96.00  | 1730   | 192.00 | 9902   | 292.00 | 1022   | 404.00 | 3177  |
| 98.00  | 27728  | 193.00 | 11178  | 293.00 | 4781   | 405.00 | 542   |
| 99.00  | 20704  | 194.00 | 2543   | 294.00 | 1217   | 406.00 | 35    |
| 100.00 | 1972   | 196.00 | 24936  | 296.00 | 72848  | 408.00 | 51    |
| 101.00 | 12613  | 198.00 | 852096 | 297.00 | 10035  | 409.00 | 40    |
| 102.00 | 842    | 199.00 | 58168  | 298.00 | 645    | 410.00 | 263   |
| 103.00 | 3858   | 200.00 | 4391   | 299.00 | 222    | 411.00 | 43    |
| 104.00 | 7474   | 202.00 | 4264   | 300.00 | 52     | 413.00 | 61    |
| 105.00 | 7649   | 203.00 | 6408   | 301.00 | 910    | 414.00 | 34    |
| 107.00 | 97840  | 204.00 | 30928  | 302.00 | 892    | 415.00 | 591   |
| 108.00 | 15554  | 205.00 | 52904  | 303.00 | 8605   | 416.00 | 168   |
| 110.00 | 180928 | 206.00 | 211968 | 304.00 | 2201   | 419.00 | 99    |
| 111.00 | 27296  | 207.00 | 26520  | 305.00 | 279    | 421.00 | 7583  |

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D\1,4\_Dx\_SIM\_HP5973U.rsl\sp

Injection Date: 06-Apr-2022 16:12:30

Spectrum: Tune Spec :Average 1414-1416(10.13-10.14) Bgrd 1406(10.09)

Base Peak: 442.10

Minimum % Base Peak: 0

Number of Points: 360

| m/z    | Y      | m/z    | Y      | m/z    | Y     | m/z    | Y       |
|--------|--------|--------|--------|--------|-------|--------|---------|
| 112.00 | 3337   | 208.00 | 6952   | 306.00 | 108   | 422.00 | 4385    |
| 113.00 | 1276   | 209.00 | 2402   | 307.00 | 77    | 423.00 | 53752   |
| 114.00 | 333    | 210.00 | 2100   | 308.00 | 1016  | 424.00 | 11121   |
| 115.00 | 160    | 211.00 | 8438   | 309.00 | 742   | 425.00 | 1073    |
| 117.00 | 89024  | 213.00 | 688    | 310.00 | 931   | 426.00 | 126     |
| 118.00 | 6353   | 214.00 | 187    | 311.00 | 264   | 427.00 | 58      |
| 119.00 | 744    | 215.00 | 2392   | 312.00 | 244   | 428.00 | 178     |
| 120.00 | 1262   | 217.00 | 57760  | 313.00 | 739   | 429.00 | 155     |
| 121.00 | 82     | 218.00 | 7770   | 314.00 | 3808  | 430.00 | 182     |
| 122.00 | 6518   | 219.00 | 675    | 315.00 | 8414  | 432.00 | 171     |
| 123.00 | 10094  | 221.00 | 47216  | 316.00 | 4498  | 432.00 | 220     |
| 124.00 | 4530   | 223.00 | 14116  | 317.00 | 887   | 433.00 | 137     |
| 125.00 | 4536   | 224.00 | 123592 | 318.00 | 90    | 434.00 | 288     |
| 127.00 | 359168 | 225.00 | 31312  | 319.00 | 156   | 435.00 | 308     |
| 128.00 | 28320  | 227.00 | 53032  | 320.00 | 64    | 436.00 | 209     |
| 129.00 | 140672 | 228.00 | 7307   | 321.00 | 2482  | 437.00 | 370     |
| 130.00 | 11786  | 229.00 | 10890  | 323.00 | 23672 | 438.00 | 278     |
| 131.00 | 2295   | 230.00 | 1481   | 324.00 | 4489  | 439.00 | 395     |
| 132.00 | 1254   | 231.00 | 4414   | 325.00 | 479   | 441.00 | 168064  |
| 133.00 | 492    | 232.00 | 748    | 326.00 | 287   | 442.00 | 1005056 |
| 134.00 | 3650   | 233.00 | 1012   | 327.00 | 4338  | 443.00 | 193024  |
| 135.00 | 11674  | 234.00 | 3134   | 328.00 | 2191  | 444.00 | 18160   |
| 136.00 | 4841   | 235.00 | 3952   | 329.00 | 434   | 445.00 | 1093    |



Report Date: 07-Apr-2022 11:23:13

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D

Injection Date: 06-Apr-2022 16:12:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

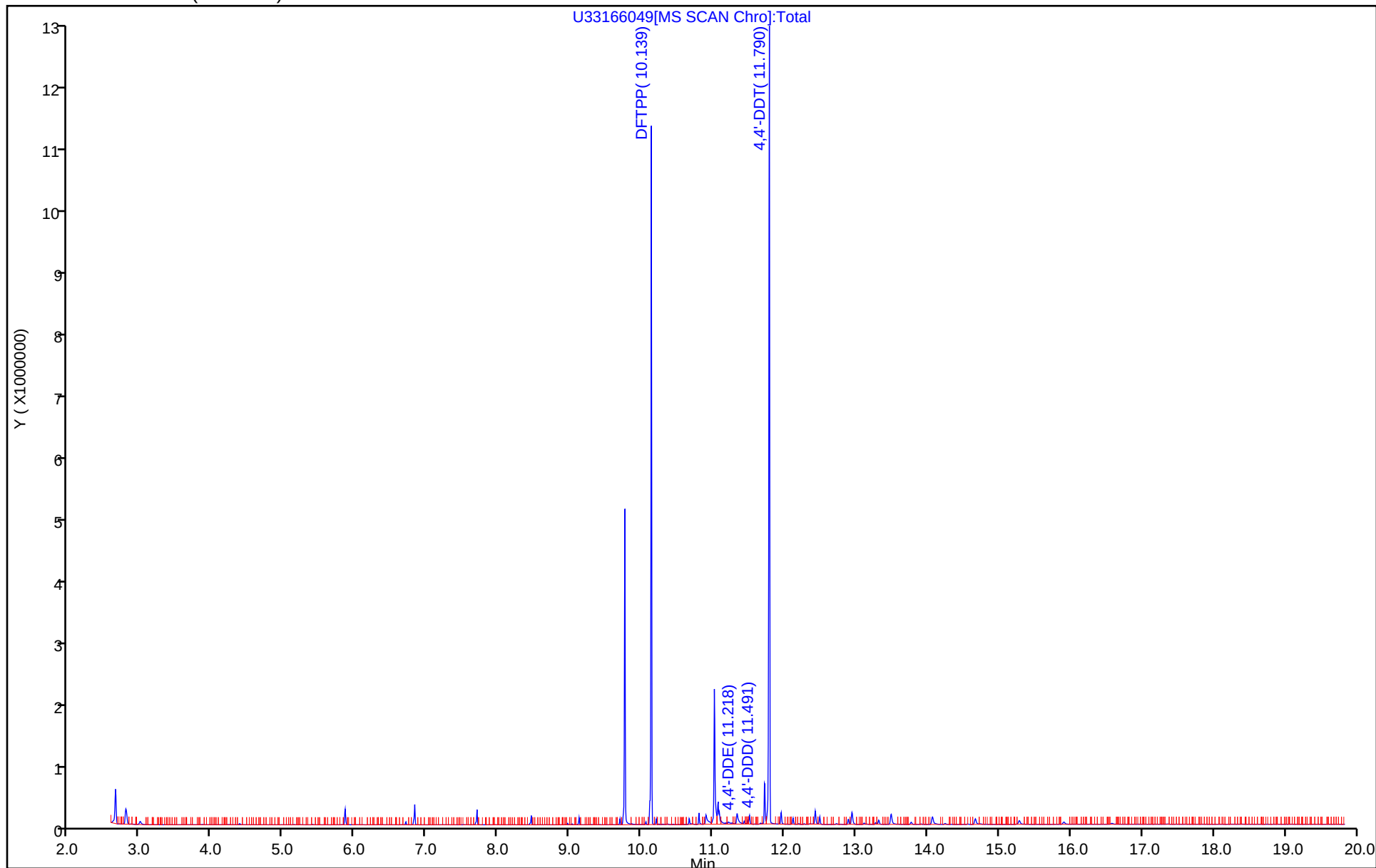
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D

Injection Date: 06-Apr-2022 16:12:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

## SW-846 Method

%Breakdown =

$$\left( \frac{\text{Area Breakdown Cpnds}}{\text{Total Area Breakdown Cpnds}} \right) * 100$$

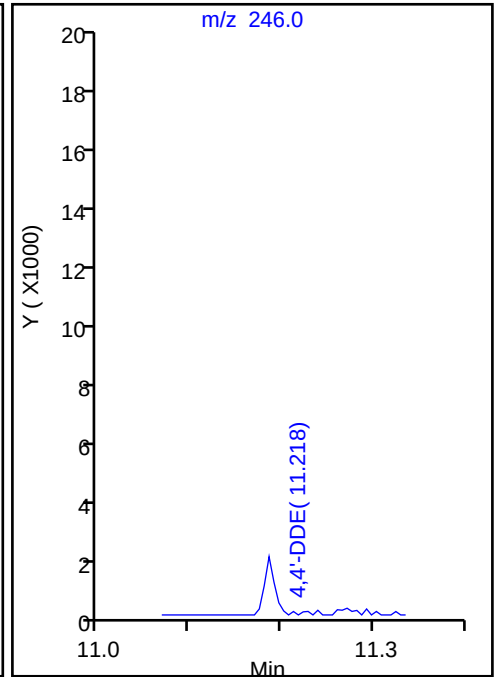
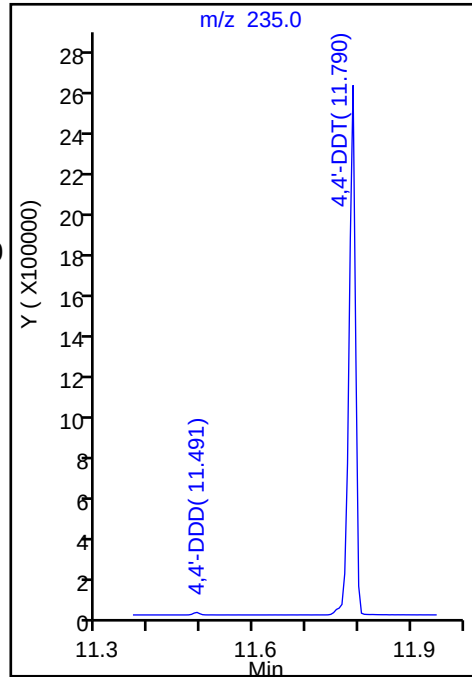
6 4,4'-DDT, Area = 2257919

5 4,4'-DDD, Area = 10697

7 4,4'-DDE, Area = 1631

%Breakdown: 0.54%, &lt;= 20.00%

Passed



Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 01-Jun-2022 15:35:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-002  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 01-Jun-2022 15:58:08 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: Deconvolution ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1631

First Level Reviewer: quirkp

Date: 01-Jun-2022 15:58:08

| Compound   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 4 DFTPP    |     |              |                  |                  |    |          |                  |                    |       |
| 7 4,4'-DDE | 246 | 11.175       | 11.175           | 0.000            | 0  | 10998    |                  |                    | NR    |
| 5 4,4'-DDD | 235 | 11.480       | 11.480           | 0.000            | 98 | 129876   |                  |                    | NR    |
| 6 4,4'-DDT | 235 | 11.779       | 11.779           | 0.000            | 98 | 2433415  | NR               |                    | NR    |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

MB\_DFTPP\_WRK\_00407

Amount Added: 1.00

Units: mL

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D

Injection Date: 01-Jun-2022 15:35:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

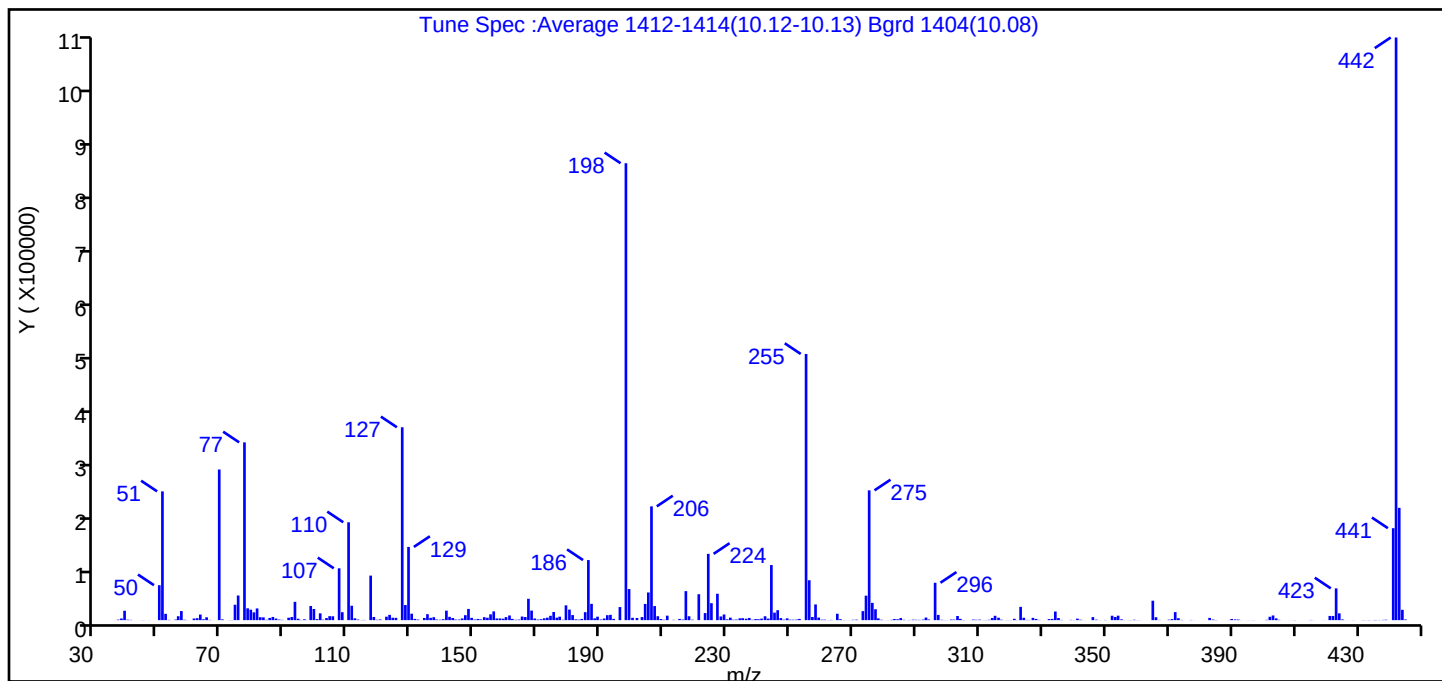
Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Tune Method: DFTPP Method 8270D, BP 198

## 4 DFTPP



| m/z | Ion Abundance Criteria       | % Relative Abundance |
|-----|------------------------------|----------------------|
| 198 | base peak, or >50% of 442    | 100.0 (78.4)         |
| 51  | 10-80% of the base peak      | 28.2                 |
| 68  | <2% of mass 69               | 0.0 (0.0)            |
| 69  | Present                      | 33.0                 |
| 70  | <2% of mass 69               | 0.2 (0.5)            |
| 127 | 10-80% of the base peak      | 42.2                 |
| 197 | <2% of mass 198              | 0.0                  |
| 199 | 5-9% of mass 198             | 6.8                  |
| 275 | 10-60% of the base peak      | 28.4                 |
| 365 | >1% of mass 198              | 4.3                  |
| 441 | present but <24% of mass 442 | 20.1 (15.8)          |
| 442 | base peak, or >50% of 198    | 127.5                |
| 443 | 15-24% of mass 442           | 24.6 (19.3)          |

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D\1,4\_Dx\_SIM\_HP5973U.rslt\\s  
Injection Date: 01-Jun-2022 15:35:30  
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1404(10.08)  
Base Peak: 442.10  
Minimum % Base Peak: 0  
Number of Points: 362

| m/z   | Y      | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.00 | 105    | 139.00 | 787   | 238.00 | 739    | 333.00 | 2318  |
| 37.00 | 936    | 140.00 | 1716  | 239.00 | 1959   | 334.00 | 16150 |
| 38.00 | 3120   | 141.00 | 17720 | 240.00 | 1666   | 335.00 | 3954  |
| 39.00 | 17560  | 142.00 | 6189  | 241.00 | 2828   | 336.00 | 418   |
| 40.00 | 878    | 143.00 | 4006  | 242.00 | 7242   | 337.00 | 44    |
| 41.00 | 486    | 144.00 | 1151  | 243.00 | 2860   | 339.00 | 511   |
| 42.00 | 38     | 145.00 | 1109  | 244.00 | 103104 | 340.00 | 223   |
| 43.00 | 20     | 146.00 | 3111  | 245.00 | 14017  | 341.00 | 2849  |
| 44.00 | 67     | 147.00 | 9275  | 246.00 | 18624  | 342.00 | 791   |
| 45.00 | 237    | 148.00 | 20984 | 247.00 | 3828   | 343.00 | 107   |
| 46.00 | 37     | 149.00 | 4324  | 248.00 | 895    | 346.00 | 5709  |
| 47.00 | 125    | 150.00 | 1188  | 249.00 | 3370   | 347.00 | 962   |
| 50.00 | 65384  | 151.00 | 2303  | 250.00 | 878    | 348.00 | 138   |
| 51.00 | 240896 | 152.00 | 1348  | 251.00 | 837    | 350.00 | 379   |
| 52.00 | 11791  | 153.00 | 5516  | 252.00 | 1077   | 352.00 | 8236  |
| 53.00 | 502    | 154.00 | 4439  | 253.00 | 2279   | 353.00 | 5885  |
| 55.00 | 1001   | 155.00 | 10840 | 255.00 | 497984 | 354.00 | 8356  |
| 56.00 | 7345   | 156.00 | 16352 | 256.00 | 74648  | 355.00 | 1508  |
| 57.00 | 16992  | 157.00 | 3171  | 257.00 | 5882   | 356.00 | 162   |
| 58.00 | 727    | 158.00 | 3165  | 258.00 | 29408  | 357.00 | 155   |
| 59.00 | 186    | 159.00 | 2761  | 259.00 | 4800   | 358.00 | 241   |
| 60.00 | 60     | 160.00 | 5634  | 260.00 | 833    | 359.00 | 747   |
| 61.00 | 3033   | 161.00 | 8736  | 261.00 | 885    | 360.00 | 156   |
| 62.00 | 3714   | 162.00 | 2386  | 262.00 | 209    | 361.00 | 165   |
| 63.00 | 10504  | 163.00 | 744   | 263.00 | 462    | 363.00 | 58    |
| 64.00 | 1633   | 164.00 | 1050  | 265.00 | 11949  | 365.00 | 36392 |
| 65.00 | 5319   | 165.00 | 6716  | 266.00 | 1757   | 366.00 | 5419  |
| 66.00 | 463    | 166.00 | 5799  | 267.00 | 223    | 367.00 | 398   |
| 67.00 | 106    | 167.00 | 39936 | 268.00 | 99     | 369.00 | 36    |
| 69.00 | 281856 | 168.00 | 17840 | 269.00 | 156    | 370.00 | 887   |
| 70.00 | 1477   | 169.00 | 3056  | 270.00 | 680    | 371.00 | 1973  |
| 72.00 | 193    | 170.00 | 1116  | 271.00 | 950    | 372.00 | 15015 |
| 73.00 | 234    | 171.00 | 1720  | 273.00 | 16904  | 373.00 | 3630  |

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D\1,4\_Dx\_SIM\_HP5973U.rsl\ts

Injection Date: 01-Jun-2022 15:35:30

Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1404(10.08)

Base Peak: 442.10

Minimum % Base Peak: 0

Number of Points: 362

| m/z    | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 74.00  | 28832  | 172.00 | 3443   | 274.00 | 45808  | 374.00 | 433   |
| 75.00  | 46096  | 173.00 | 4600   | 275.00 | 242816 | 375.00 | 41    |
| 77.00  | 332608 | 174.00 | 8148   | 276.00 | 32304  | 377.00 | 384   |
| 78.00  | 22120  | 175.00 | 15307  | 277.00 | 20376  | 378.00 | 84    |
| 79.00  | 19568  | 176.00 | 4621   | 278.00 | 3291   | 379.00 | 41    |
| 80.00  | 14624  | 177.00 | 6482   | 279.00 | 703    | 380.00 | 34    |
| 81.00  | 21896  | 178.00 | 660    | 280.00 | 90     | 383.00 | 4228  |
| 82.00  | 5457   | 179.00 | 27704  | 281.00 | 138    | 384.00 | 1108  |
| 83.00  | 5233   | 180.00 | 19720  | 282.00 | 623    | 385.00 | 312   |
| 84.00  | 670    | 181.00 | 9466   | 283.00 | 2087   | 389.00 | 137   |
| 85.00  | 4144   | 182.00 | 1496   | 284.00 | 1627   | 390.00 | 2212  |
| 86.00  | 5996   | 183.00 | 977    | 285.00 | 3915   | 391.00 | 1377  |
| 87.00  | 3002   | 184.00 | 2302   | 286.00 | 657    | 392.00 | 1120  |
| 88.00  | 1086   | 185.00 | 14942  | 287.00 | 89     | 393.00 | 168   |
| 89.00  | 515    | 186.00 | 112392 | 288.00 | 343    | 395.00 | 96    |
| 91.00  | 4519   | 187.00 | 30512  | 289.00 | 882    | 396.00 | 73    |
| 92.00  | 5835   | 188.00 | 3386   | 290.00 | 686    | 397.00 | 211   |
| 93.00  | 34256  | 189.00 | 6469   | 291.00 | 533    | 401.00 | 633   |
| 94.00  | 2659   | 190.00 | 1074   | 292.00 | 1096   | 402.00 | 6307  |
| 95.00  | 475    | 191.00 | 3057   | 293.00 | 4883   | 403.00 | 8742  |
| 96.00  | 1588   | 192.00 | 9257   | 294.00 | 1226   | 404.00 | 3289  |
| 97.00  | 126    | 193.00 | 9909   | 296.00 | 69976  | 405.00 | 606   |
| 98.00  | 26480  | 194.00 | 2361   | 297.00 | 9820   | 408.00 | 85    |
| 99.00  | 20848  | 196.00 | 24480  | 298.00 | 619    | 409.00 | 40    |
| 100.00 | 1963   | 198.00 | 854784 | 299.00 | 219    | 410.00 | 239   |
| 101.00 | 12770  | 199.00 | 58144  | 300.00 | 93     | 414.00 | 65    |
| 102.00 | 788    | 200.00 | 4382   | 301.00 | 1116   | 415.00 | 366   |
| 103.00 | 3883   | 202.00 | 4070   | 302.00 | 940    | 416.00 | 104   |
| 104.00 | 7481   | 203.00 | 5778   | 303.00 | 7733   | 419.00 | 93    |
| 105.00 | 7229   | 204.00 | 30360  | 304.00 | 2392   | 420.00 | 72    |
| 107.00 | 96984  | 205.00 | 51784  | 305.00 | 329    | 420.00 | 74    |
| 108.00 | 14888  | 206.00 | 212864 | 306.00 | 44     | 421.00 | 7881  |
| 110.00 | 183104 | 207.00 | 26320  | 307.00 | 87     | 422.00 | 7825  |
| 111.00 | 26928  | 208.00 | 7315   | 308.00 | 1039   | 423.00 | 59416 |

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D\1,4\_Dx\_SIM\_HP5973U.rslt\

Injection Date: 01-Jun-2022 15:35:30

Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1404(10.08)

Base Peak: 442.10

Minimum % Base Peak: 0

Number of Points: 362

| m/z    | Y      | m/z    | Y      | m/z    | Y     | m/z    | Y       |
|--------|--------|--------|--------|--------|-------|--------|---------|
| 112.00 | 3377   | 209.00 | 2080   | 309.00 | 760   | 424.00 | 12742   |
| 113.00 | 1132   | 210.00 | 729    | 310.00 | 987   | 425.00 | 1343    |
| 114.00 | 245    | 211.00 | 8403   | 311.00 | 130   | 426.00 | 116     |
| 115.00 | 421    | 213.00 | 528    | 312.00 | 290   | 427.00 | 62      |
| 117.00 | 83320  | 215.00 | 2294   | 313.00 | 712   | 428.00 | 115     |
| 118.00 | 5916   | 216.00 | 1137   | 314.00 | 3963  | 429.00 | 99      |
| 119.00 | 756    | 217.00 | 54280  | 315.00 | 8132  | 430.00 | 14      |
| 120.00 | 1321   | 218.00 | 7301   | 316.00 | 4578  | 432.00 | 256     |
| 122.00 | 6452   | 219.00 | 853    | 317.00 | 847   | 432.00 | 154     |
| 123.00 | 9914   | 221.00 | 48488  | 318.00 | 120   | 433.00 | 209     |
| 124.00 | 4501   | 223.00 | 13240  | 319.00 | 207   | 434.00 | 203     |
| 125.00 | 4290   | 224.00 | 124000 | 320.00 | 181   | 435.00 | 281     |
| 127.00 | 360832 | 225.00 | 31736  | 321.00 | 2487  | 436.00 | 337     |
| 128.00 | 28296  | 227.00 | 49376  | 322.00 | 214   | 437.00 | 284     |
| 129.00 | 136960 | 228.00 | 6917   | 323.00 | 24816 | 438.00 | 481     |
| 130.00 | 12026  | 229.00 | 10593  | 324.00 | 4417  | 439.00 | 797     |
| 131.00 | 2331   | 230.00 | 1516   | 325.00 | 464   | 441.00 | 172032  |
| 132.00 | 1139   | 231.00 | 4696   | 326.00 | 329   | 442.00 | 1090048 |
| 133.00 | 32     | 232.00 | 816    | 327.00 | 4274  | 443.00 | 210112  |
| 134.00 | 4075   | 233.00 | 1085   | 328.00 | 2312  | 444.00 | 19344   |
| 135.00 | 11154  | 234.00 | 3340   | 329.00 | 448   | 445.00 | 1212    |
| 136.00 | 4295   | 235.00 | 3680   | 330.00 | 57    | 446.00 | 44      |
| 137.00 | 5526   | 236.00 | 2690   | 331.00 | 37    |        |         |
| 138.00 | 1202   | 237.00 | 4126   | 332.00 | 1996  |        |         |

Report Date: 01-Jun-2022 15:58:08

Chrom Revision: 2.3 26-May-2022 13:30:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D

Injection Date: 01-Jun-2022 15:35:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

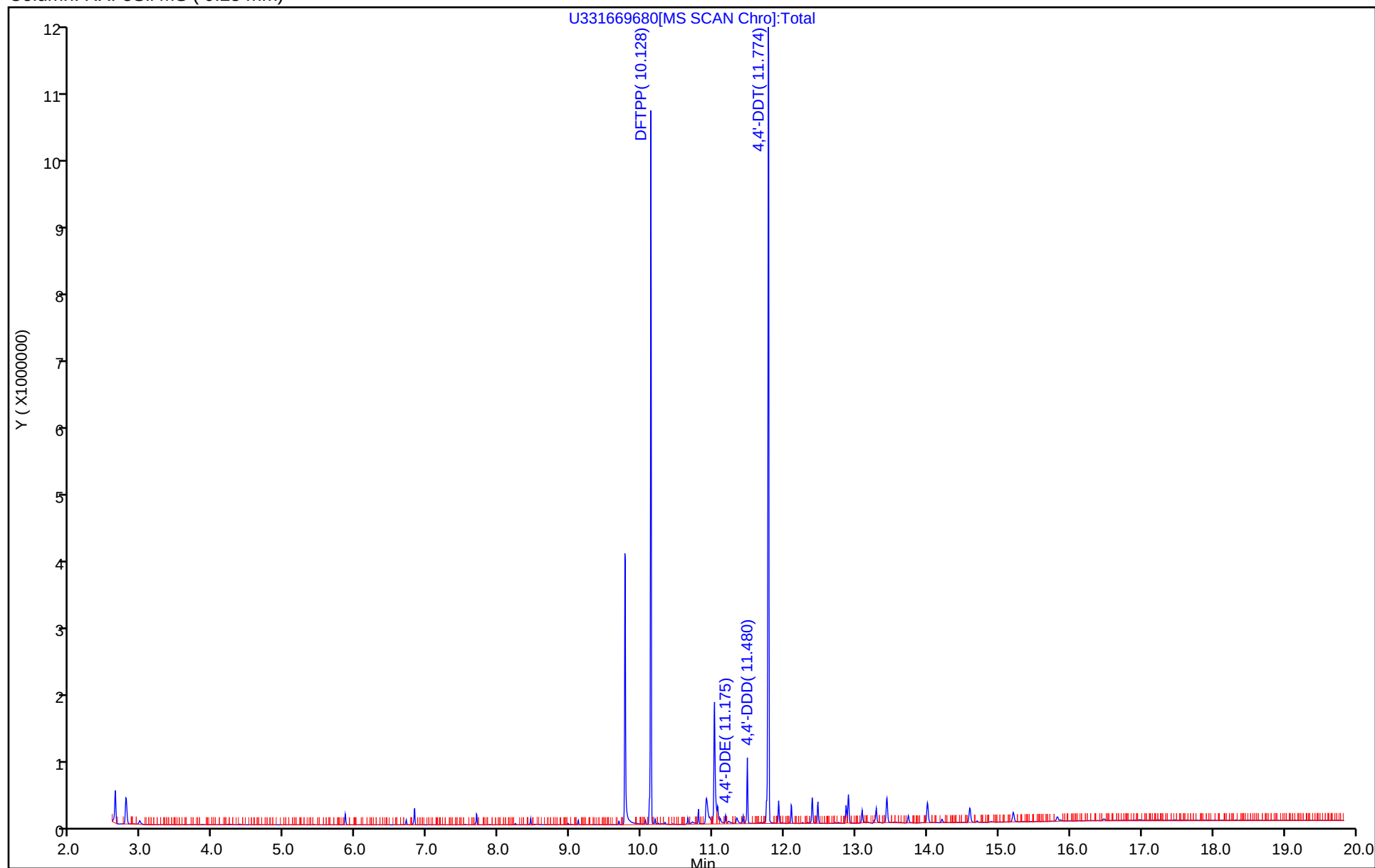
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)





## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669680.D  
Injection Date: 01-Jun-2022 15:35:30 Instrument ID: HP5973U  
Lims ID: DFTPP  
Client ID:  
Operator ID: PJJQ ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

## SW-846 Method

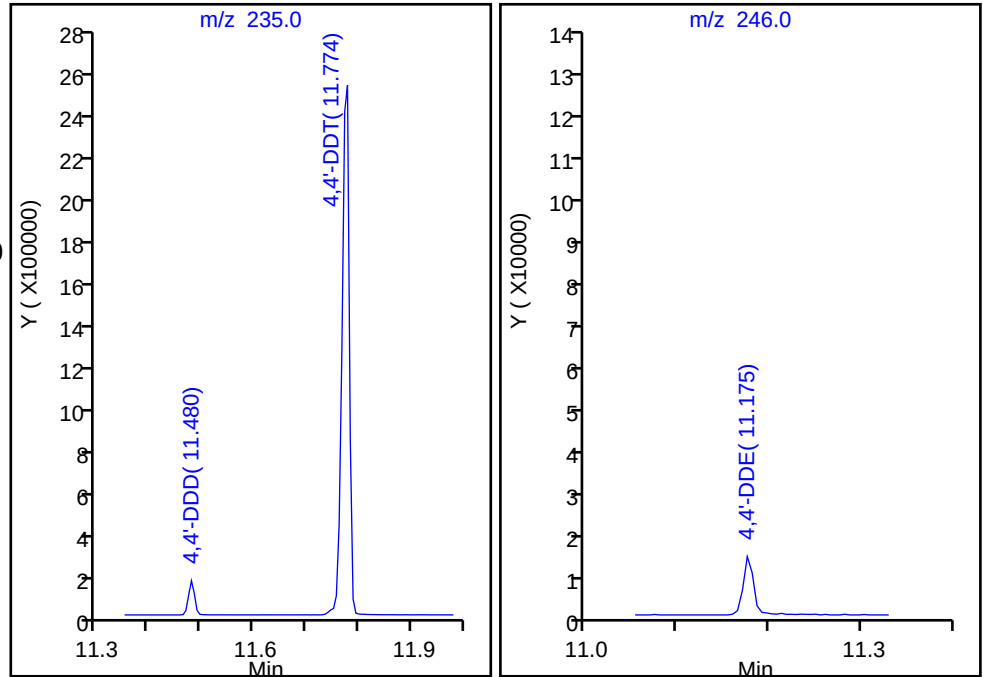
%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

6 4,4'-DDT, Area = 2433415

5 4,4'-DDD, Area = 129876

7 4,4'-DDE, Area = 10998

%Breakdown: 5.47%, <= 20.00%  
Passed



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-628215/1-A  
Matrix: Water Lab File ID: U331669682.D  
Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
Extract. Method: 3510C Date Extracted: 05/31/2022 16:10  
Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 16:28  
Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 628363 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL  |
|----------|---------------|--------|---|------|------|
| 123-91-1 | 1,4-Dioxane   | 0.20   | U | 0.20 | 0.10 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 38   |   | 15-110 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669682.D  
 Lims ID: MB 480-628215/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 01-Jun-2022 16:28:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-004  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 01-Jun-2022 22:53:36 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1685

First Level Reviewer: quirkp

Date: 02-Jun-2022 12:05:29

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.411        | 3.403            | 0.008            | 100 | 131473   | 5.00             | 1.92               |       |
| 3 1,4-Dioxane              | 88  |              | 3.448            |                  |     |          |                  | ND                 |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.312        | 6.309            | 0.003            | 100 | 483946   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_LLIS\_WRK\_00235

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669682.D

Injection Date: 01-Jun-2022 16:28:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: MB 480-628215/1-A

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

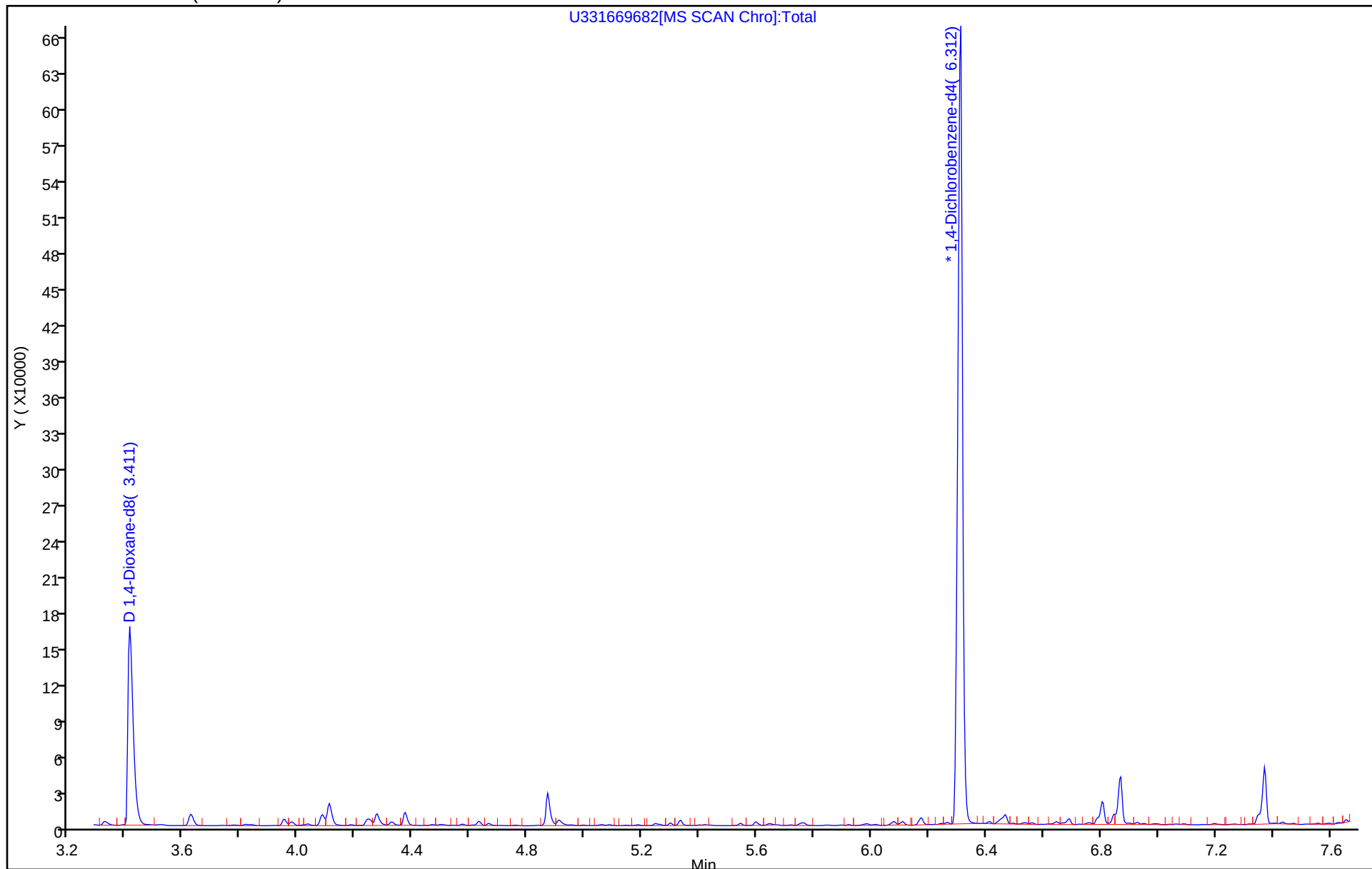
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669682.D

Injection Date: 01-Jun-2022 16:28:30

Instrument ID: HP5973U

Lims ID: MB 480-628215/1-A

Client ID:

Operator ID: PJQ

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

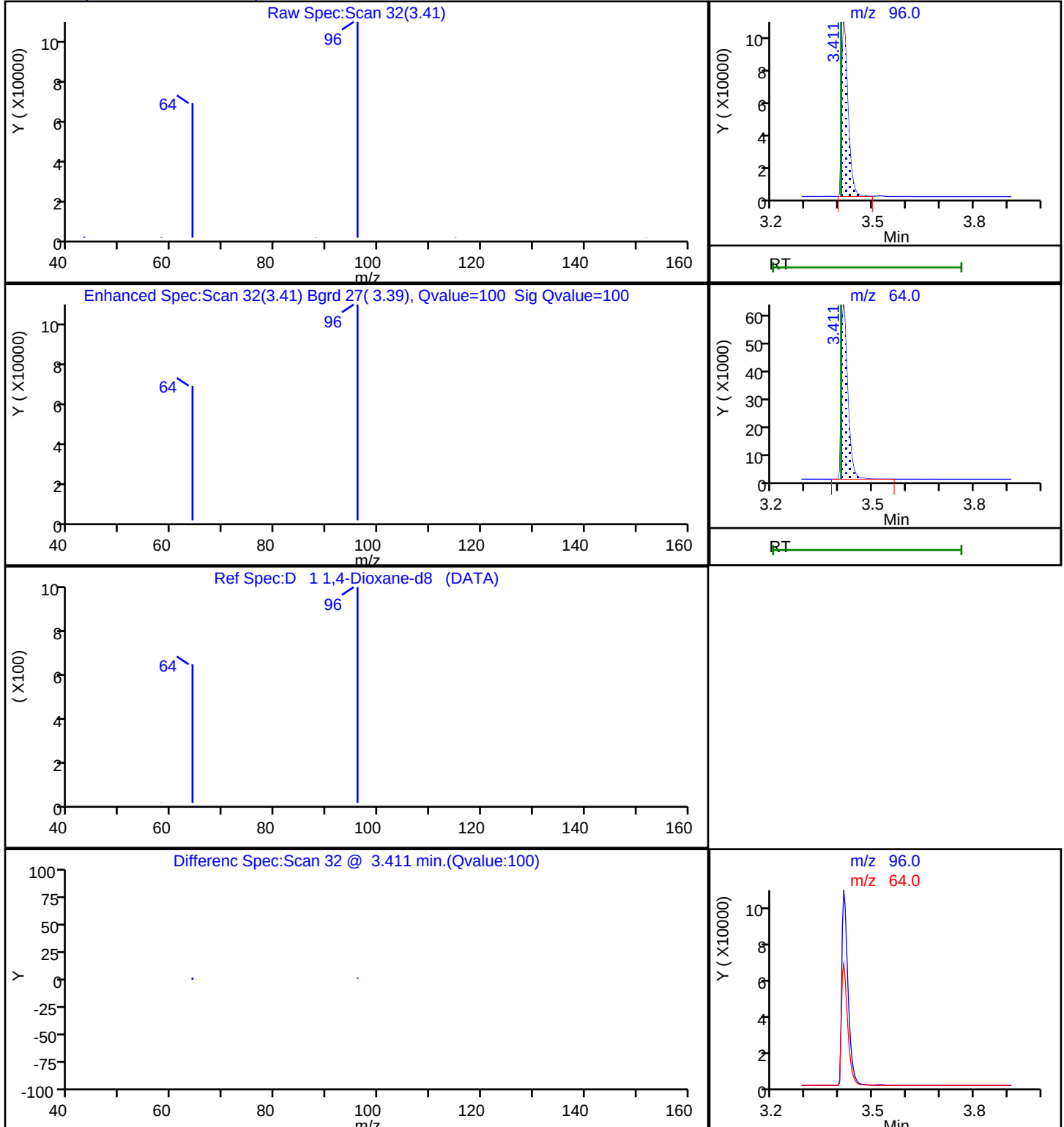
Limit Group:

MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 480-628215/2-A  
Matrix: Water Lab File ID: U331669683.D  
Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
Extract. Method: 3510C Date Extracted: 05/31/2022 16:10  
Sample wt/vol: 250 (mL) Date Analyzed: 06/01/2022 16:51  
Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 628363 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL  |
|----------|---------------|--------|---|------|------|
| 123-91-1 | 1,4-Dioxane   | 2.32   |   | 0.20 | 0.10 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 42   |   | 15-110 |

Eurofins Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669683.D  
 Lims ID: LCS 480-628215/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 01-Jun-2022 16:51:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0105837-005  
 Operator ID: PJQ Instrument ID: HP5973U  
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\1\_4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 01-Jun-2022 22:53:36 Calib Date: 06-Apr-2022 18:32:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D  
 Column 1 : RXI-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1685

First Level Reviewer: quirkp

Date: 02-Jun-2022 12:05:39

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ng/ul | OnCol Amt<br>ng/ul | Flags |
|----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.411        | 3.403            | 0.008            | 100 | 136364   | 5.00             | 2.08               |       |
| 3 1,4-Dioxane              | 88  | 3.456        | 3.448            | 0.008            | 98  | 16391    | 0.5000           | 0.5812             |       |
| * 2 1,4-Dichlorobenzene-d4 | 152 | 6.313        | 6.309            | 0.004            | 100 | 462939   | 4.00             | 4.00               |       |

**QC Flag Legend**

Processing Flags

**Reagents:**

MB\_LLIS\_WRK\_00235

Amount Added: 20.00

Units: uL

Run Reagent

## Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220601-105837.b\U331669683.D

Injection Date: 01-Jun-2022 16:51:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: LCS 480-628215/2-A

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

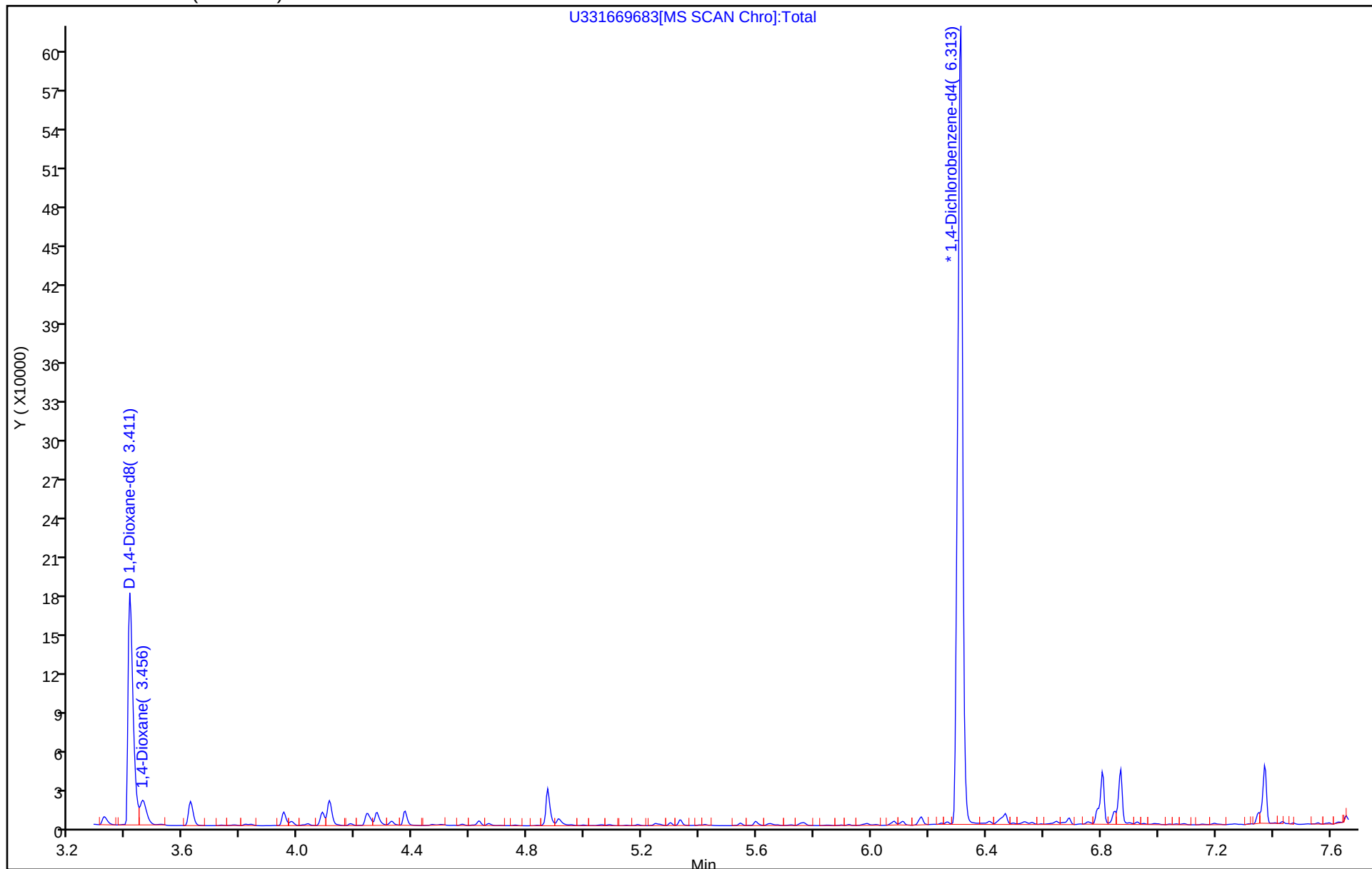
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)





## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins BuffaloJob No.: 480-198416-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973UStart Date: 04/06/2022 16:12Analysis Batch Number: 620693End Date: 04/07/2022 00:01

| LAB SAMPLE ID       | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                     |
|---------------------|------------------|------------------|--------------------|-------------|-------------------------------|
| DFTPP 480-620693/2  |                  | 04/06/2022 16:12 | 1                  | U33166049.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| IC 480-620693/3     |                  | 04/06/2022 16:42 | 1                  | U33166050.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| IC 480-620693/4     |                  | 04/06/2022 17:04 | 1                  | U33166051.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| IC 480-620693/5     |                  | 04/06/2022 17:26 | 1                  | U33166052.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ICIS 480-620693/6   |                  | 04/06/2022 17:48 | 1                  | U33166053.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| IC 480-620693/7     |                  | 04/06/2022 18:09 | 1                  | U33166054.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| IC 480-620693/8     |                  | 04/06/2022 18:32 | 1                  | U33166055.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ICV 480-620693/9    |                  | 04/06/2022 18:54 | 1                  | U33166056.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| CCVIS 480-620693/10 |                  | 04/06/2022 19:16 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 19:39 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 20:00 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 20:22 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 20:44 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 21:06 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 21:28 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 21:51 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 22:12 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 22:34 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 22:56 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 23:18 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/06/2022 23:40 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ               |                  | 04/07/2022 00:01 | 1                  |             | RXI-5Sil MS(0.5<br>0.25 (mm)) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins BuffaloJob No.: 480-198416-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973UStart Date: 06/01/2022 15:35Analysis Batch Number: 628363End Date: 06/02/2022 00:39

| LAB SAMPLE ID      | CLIENT SAMPLE ID             | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID  | COLUMN ID                     |
|--------------------|------------------------------|------------------|--------------------|--------------|-------------------------------|
| DFTPP 480-628363/2 |                              | 06/01/2022 15:35 | 1                  | U331669680.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| CCVIS 480-628363/3 |                              | 06/01/2022 16:06 | 1                  | U331669681.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| MB 480-628215/1-A  |                              | 06/01/2022 16:28 | 1                  | U331669682.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| LCS 480-628215/2-A |                              | 06/01/2022 16:51 | 1                  | U331669683.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 17:13 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 17:35 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 17:57 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 18:19 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 18:41 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 19:03 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 19:25 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 19:48 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 20:11 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 20:33 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 20:56 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 21:18 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 21:40 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 22:02 | 50                 |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 22:24 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| 480-198416-1       | EN10-M-5/25/2022             | 06/01/2022 22:46 | 1                  | U331669699.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| 480-198416-2       | FIELD BLANK<br>5/25/2022     | 06/01/2022 23:08 | 1                  | U331669700.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| 480-198416-3       | BLIND DUPLICATE<br>5/25/2022 | 06/01/2022 23:31 | 1                  | U331669701.D | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/01/2022 23:53 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/02/2022 00:16 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |
| ZZZZZ              |                              | 06/02/2022 00:39 | 1                  |              | RXI-5Sil MS(0.5<br>0.25 (mm)) |

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1

SDG No.: \_\_\_\_\_

Batch Number: 620693 Batch Start Date: 04/06/22 16:12 Batch Analyst: Quirk, Patrick JBatch Method: 8270D SIM ID Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | MB_1,4SIM_WRK<br>00129 | MB_1,4SIM_WRK<br>00130 | MB_1,4SIM_WRK<br>00131 | MB_1,4SIM_WRK<br>00132 | MB_1,4SIM_WRK<br>00133 | MB_1,4SIM_WRK<br>00134 |
|-----------------------|------------------|--------------|-------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| DFTPP<br>480-620693/2 |                  | 8270D SIM ID |       |                        |                        |                        |                        |                        |                        |
| IC 480-620693/3       |                  | 8270D SIM ID |       | 1 mL                   |                        |                        |                        |                        |                        |
| IC 480-620693/4       |                  | 8270D SIM ID |       |                        | 1 mL                   |                        |                        |                        |                        |
| IC 480-620693/5       |                  | 8270D SIM ID |       |                        |                        | 1 mL                   |                        |                        |                        |
| ICIS<br>480-620693/6  |                  | 8270D SIM ID |       |                        |                        |                        | 1 mL                   |                        |                        |
| IC 480-620693/7       |                  | 8270D SIM ID |       |                        |                        |                        |                        | 1 mL                   |                        |
| IC 480-620693/8       |                  | 8270D SIM ID |       |                        |                        |                        |                        |                        | 1 mL                   |
| ICV<br>480-620693/9   |                  | 8270D SIM ID |       |                        |                        |                        |                        |                        |                        |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | MB_DFTPP_WRK<br>00404 | MB_LLIS_WRK<br>00232 | MB_SIMSS_WRK<br>00018 |  |  |  |
|-----------------------|------------------|--------------|-------|-----------------------|----------------------|-----------------------|--|--|--|
| DFTPP<br>480-620693/2 |                  | 8270D SIM ID |       | 1 mL                  |                      |                       |  |  |  |
| IC 480-620693/3       |                  | 8270D SIM ID |       |                       | 20 uL                |                       |  |  |  |
| IC 480-620693/4       |                  | 8270D SIM ID |       |                       | 20 uL                |                       |  |  |  |
| IC 480-620693/5       |                  | 8270D SIM ID |       |                       | 20 uL                |                       |  |  |  |
| ICIS<br>480-620693/6  |                  | 8270D SIM ID |       |                       | 20 uL                |                       |  |  |  |
| IC 480-620693/7       |                  | 8270D SIM ID |       |                       | 20 uL                |                       |  |  |  |
| IC 480-620693/8       |                  | 8270D SIM ID |       |                       | 20 uL                |                       |  |  |  |
| ICV<br>480-620693/9   |                  | 8270D SIM ID |       |                       | 20 uL                | 1 mL                  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM ID

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198416-1

SDG No.: \_\_\_\_\_

Batch Number: 628215 Batch Start Date: 05/31/22 16:09 Batch Analyst: Campbell, Cameron MBatch Method: 3510C Batch End Date: \_\_\_\_\_

| Lab Sample ID       | Client Sample ID             | Method Chain           | Basis | InitialAmount | FinalAmount | ReceivedpH | FirstAdjustpH | OP_SIM LCS<br>00018 | OP_SimSurr<br>00042 |
|---------------------|------------------------------|------------------------|-------|---------------|-------------|------------|---------------|---------------------|---------------------|
| MB 480-628215/1     |                              | 3510C, 8270D<br>SIM ID |       | 250 mL        | 1 mL        | 7 SU       | <2 SU         |                     | 1 mL                |
| LCS<br>480-628215/2 |                              | 3510C, 8270D<br>SIM ID |       | 250 mL        | 1 mL        | 7 SU       | <2 SU         | 1 mL                | 1 mL                |
| 480-198416-A-1      | EN10-M-5/25/2022             | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 1 mL        | 7 SU       | <2 SU         |                     | 1 mL                |
| 480-198416-A-2      | FIELD BLANK<br>5/25/2022     | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 1 mL        | 7 SU       | <2 SU         |                     | 1 mL                |
| 480-198416-B-3      | BLIND DUPLICATE<br>5/25/2022 | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 1 mL        | 7 SU       | <2 SU         |                     | 1 mL                |

| Batch Notes                        |                           |
|------------------------------------|---------------------------|
| Method/Fraction                    | 3510C_LVI/8270D_SIM_MS_ID |
| Analyst ID - Extraction            | CC                        |
| Analyst ID - Spike Analyst         | CC                        |
| Analyst ID - Spike Witness Analyst | CC                        |
| Sufficient Volume for Batch QC     | Yes                       |
| Acid Used for pH Adjustment ID     | 6931758                   |
| Prep Solvent ID                    | 7003365                   |
| Prep Solvent Volume Used           | 60 mL                     |
| Na2SO4 ID                          | Unbaked sulfate           |
| Analyst ID - Concentration         | CC                        |
| Vial Lot Number                    | 00259742                  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM ID

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