



**DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING**

**Old Bethpage Landfill**

**Post-Termination Groundwater Monitoring  
Program**

**First Semiannual Report of 2019**

**October 2019**



**FIRST SEMIANNUAL REPORT OF 2019**

**OLD BETHPAGE LANDFILL  
POST-TERMINATION GROUNDWATER MONITORING PROGRAM**

*Prepared for:*

**TOWN OF OYSTER BAY  
DEPARTMENT OF PUBLIC WORKS  
NASSAU COUNTY, NEW YORK**



*Prepared by:*

**D&B ENGINEERS AND ARCHITECTS, P.C.  
WOODBURY, NEW YORK**



**OCTOBER 2019**

**FIRST SEMIANNUAL REPORT OF 2019  
 OLD BETHPAGE LANDFILL  
 POST-TERMINATION GROUNDWATER MONITORING PROGRAM**

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1.0</b>	<b>INTRODUCTION.....</b>	1-1
<b>2.0</b>	<b>COMPLETED SCOPE OF WORK.....</b>	2-1
2.1	Groundwater Sampling Procedures .....	2-1
2.2	Sample Analyses.....	2-2
<b>3.0</b>	<b>DISCUSSION OF RESULTS .....</b>	3-1
3.1	Data Validation .....	3-1
3.2	Groundwater Results.....	3-2
3.2.1	Volatile Organic Compounds .....	3-2
3.2.2	Inorganic Parameters .....	3-3
3.2.3	Leachate Indicators .....	3-3
3.3	Historical Groundwater Trends.....	3-4
3.3.1	Total Volatile Organic Compounds .....	3-4
3.3.2	Total Inorganic Parameters .....	3-4
3.3.3	Leachate Indicators .....	3-5
<b>4.0</b>	<b>CONCLUSIONS .....</b>	4-1

**List of Appendices**

---

Groundwater Sampling Logs .....	A
Chain of Custody Forms .....	B
Data Validation Checklist .....	C
Laboratory Data Reports.....	D
Post-Termination Historical Groundwater Trend Graphs.....	E
Previously Collected Post-Termination Groundwater Monitoring Data .....	F

## TABLE OF CONTENTS (continued)

### List of Figures

---

- 1 Groundwater Monitoring Well Location Map

### List of Tables

---

- 1 Volatile Organic Compounds, May 2019
- 2 Total and Dissolved Metals, May 2019
- 3 Leachate Indicator Parameters, May 2019

## 1.0 INTRODUCTION

This First Semiannual Report of 2019 was prepared at the request of the Town of Oyster Bay to summarize and evaluate the data collected for the Post-Termination Groundwater Monitoring Program at the Old Bethpage Landfill. The monitoring was completed in accordance with the requirements of the Protocols for Sampling Groundwater under the Old Bethpage Solid Waste Disposal Complex Remedial Action Plan (RAP) prepared by Geraghty & Miller, Appendix I of the 1988 Record of Decision (New York State Department of Environmental Conservation [NYSDEC] and the United States Environmental Protection Agency [USEPA]). The purpose of the Post-Termination Groundwater Monitoring Program is to assess whether the termination criteria set forth in the RAP continues to be met following operational termination of the recovery wells RW-1 and RW-2.

Note that this report describes the first semiannual groundwater sampling event of 2019 and is the fifth sampling round and report completed under the Post-Termination Groundwater Monitoring Program. In an October 7, 2016 letter, the NYSDEC approved the operational termination of recovery wells RW-1 and RW-2 and to enter Post-Termination Monitoring under the Final Consent Decree. As described in the NYSDEC letter, Post-Termination Monitoring will be performed semi-annually for three years, for a total of six rounds. Each report will include all previously collected Post-Termination data, and the final report will evaluate if the termination criteria described in Appendix A, Section III of the Consent Decree has been met.

## 2.0 COMPLETED SCOPE OF WORK

The scope of work for the Post-Termination Groundwater Monitoring Program includes the sampling of 13 groundwater monitoring wells as described below. In accordance with the October 7, 2016 letter from the NYSDEC, hydraulic monitoring is not a Town responsibility under this program, including the collection of synoptic water levels and mapping of groundwater flow.

### 2.1 Groundwater Sampling Procedures

In accordance with the October 7, 2016 letter from the NYSDEC, monitoring wells LF-1, LF-2, MW-5B, MW-06A, MW-6B, MW-6C, MW-6E, MW-6F, MW-8A, MW-8B, MW-9B, MW-9C and OBS-1 were sampled on May 22, 23 and 24, 2019 as part of the first semiannual groundwater sampling event of 2019. The locations of these monitoring wells are depicted on **Figure 1**.

Prior to collecting groundwater samples, the monitoring wells were purged to remove standing water in the well. Well purging was accomplished by first measuring the static water level in the well and calculating the volume of standing water. All monitoring wells were purged utilizing a non-dedicated submersible pump, with the pump intake placed just below (approximately 5 feet) the static water level in each well. All down-well equipment was decontaminated before use and after sampling each well.

Field measurements of pH, temperature, specific conductivity, turbidity, dissolved oxygen and oxidation-reduction potential (ORP) were observed and recorded during the purging process. When the values of the field parameters stabilized within 10%, the turbidity of the groundwater was less than 50 Nephelometric Turbidity Units (NTUs) and at least three well volumes had been removed, well purging was considered complete. Field observations and measurements were documented on the well sampling logs, provided in **Appendix A**.

After well purging was complete, the flow rate was substantially reduced, and groundwater samples were collected directly from the pump discharge. Samples for volatile organic compounds

(VOC) analysis were collected first, followed by other parameters. Each sample was labeled with the well number, time and date, and stored in an ice-filled cooler with the chain of custody forms. Samples were delivered to the laboratory on a daily basis. Quality Assurance/Quality Control (QA/QC) samples were also collected and analyzed, including one field blank, one field duplicate, and three trip blanks. The chain of custody forms are provided in **Appendix B**.

## **2.2 Sample Analyses**

Groundwater samples collected during the first semiannual groundwater sampling event of 2019 from the monitoring wells were analyzed for VOCs, total and dissolved metals and leachate indicators. Laboratory analyses were performed by Pace Analytical Laboratories of Melville, New York (Pace Analytical). This laboratory is approved under the New York State Department of Health Environmental Laboratory Approval Program (ELAP) for the analyses performed. Filtering of the samples for dissolved metals analysis was performed in the field using in-line disposable filters.

The analytical results are summarized in **Table 1** for VOCs, **Table 2** for total and dissolved metals and **Table 3** for leachate indicators. The results are discussed below in Section 3.0.

### 3.0 DISCUSSION OF RESULTS

#### 3.1 Data Validation

Thirteen groundwater samples, one field duplicate, one field blank and three trip blanks were collected as part of the first semiannual groundwater sampling event of 2019 performed at the Old Bethpage Landfill under the Post-Termination Groundwater Monitoring Program. All samples were analyzed for VOCs, total and dissolved metals, and leachate indicators. Sample analysis was performed in accordance with SW-846 methods. The laboratory analysis was performed by Pace Analytical Services, LLC, located in Melville, New York, and was reported in data packages 7090528; phenolics were subcontracted to EnviroTest Laboratories, Inc., in Newburgh, New York.

The data packages submitted by the analytical laboratory were validated in accordance with NYSDEC quality assurance/quality control (QA/QC) requirements. All samples were analyzed within the method specified holding times. The Data Validation Checklists are provided in **Appendix C**. The laboratory data packages are provided in **Appendix D**. The following qualification of the data was required based on the findings of the data validation:

- The percent recovery (%R) was below the QC limit for bromoform in the matrix spike (MS) and laboratory control sample (LCS) and was qualified as an estimated detection limit in all samples (UJ).
- Total iron was detected in the Field Blank and was qualified as non-detect (UB) in samples MW-5B, BLIND DUPLICATE, MW-6A, MW-8A, MW-8B, MW-9B, MW-9C and OBS-1.
- The dissolved aluminum and iron %Rs were above the QC limits in the spike sample and had relative percent difference above the QC limit in the duplicate. Dissolved aluminum and iron were qualified as estimated (UJ/J) in all samples.
- Ammonia was detected in the Field Blank and was qualified as non-detect (UB) in sample MW-08B.
- The %Rs for hexavalent chromium and total kjeldahl nitrogen were below the QC limits in the MS associated with samples LF-1 and FIELD BLANK and nitrate associated with samples LF-2, MW-06A, MW-06B, MW-06C, MW-06E and FIELD BLANK. They were qualified as estimated (J/UJ) in the associated samples.



- The %Rs were above the QC limits in the MS for total dissolved solids and nitrite associated with all samples. Total dissolved solids in all samples and nitrite in samples MW-5B and BLIND DUPLICATE were detected and qualified as estimated (J).

No other issues were found with the sample results and all results are deemed valid and usable for environmental assessment purposes as qualified above.

## 3.2 Groundwater Results

The analytical results for the first semiannual groundwater sampling event of 2019 are summarized in **Table 1** for VOCs, **Table 2** for total and dissolved metals and **Table 3** for leachate indicators. Analytical parameters are compared to the New York State Department of Environmental Conservation Ambient Water Quality Standards and Guidance Values for Class GA groundwater (herein referred to as the Class GA groundwater standards and guidance values).

### 3.2.1 Volatile Organic Compounds

Detectable concentrations of VOCs were identified in 8 of the 13 groundwater monitoring wells, including LF-2, MW-6A, MW-6B, MW-6C, MW-6E, MW-8A, MW-9B and MW-9C. The highest concentration of total VOCs of 14.1 ug/l was detected at MW-8A. The sample collected from MW-6B exhibited the next highest total VOCs of 12.6 ug/l, followed in decreasing order by LF-2, MW-6C, MW-9C, MW-6E, MW-6A and MW-9B. VOCs were detected at concentrations above Class GA groundwater standards and guidance values at wells LF-2, MW-6B and MW-8A as follows:

- Benzene was detected at LF-2 and MW-6B at concentrations of 2.3 ug/l and 2.1 ug/l, respectively, slightly above the Class GA standard of 1 ug/l.
- Chlorobenzene was detected at MW-6B at a concentration of 5.4 ug/l, slightly above the Class GA standard of 5 ug/l.
- Cis-1,2-dichloroethylene (1,2-DCE) was detected at MW-8A at concentration of 10 ug/l, above the Class GA standard of 5 ug/l.

### 3.2.2 Inorganic Parameters

Iron, manganese and sodium were detected above groundwater standards in both total and dissolved samples, as described below. Note that concentrations of total metals may be elevated due to the presence of suspended solids in the sample, and therefore the dissolved (filtered) analysis more closely represents actual groundwater conditions.

- Total iron was detected above the Class GA groundwater standard of 300 ug/l in 5 of the 13 groundwater monitoring wells with concentrations ranging from 6,700 ug/l at MW-6C to a maximum of 16,200 ug/l at MW-6E. Dissolved iron concentrations were generally lower but similar to their respective total concentrations, with a maximum concentration of 16,000 ug/l detected at MW-6E.
- Total manganese was detected above the Class GA groundwater standard of 300 ug/l in 6 of the 13 groundwater monitoring wells with concentrations ranging from 479 ug/l at MW-6E to a maximum of 3,690 ug/l at MW-5B. Dissolved manganese concentrations were generally lower but similar to their respective total concentrations, with a maximum concentration of 3,530 ug/l detected at MW-5B.
- Total sodium was detected above the Class GA groundwater standard of 20,000 ug/l in 12 of the 13 groundwater monitoring wells, with concentrations ranging from 41,700 ug/l at MW-8A to a maximum of 429,000 ug/l at MW-6C. Dissolved sodium concentrations were similar to their respective total concentrations, with a maximum concentration of 411,000 ug/l detected at LF-2.

### 3.2.3 Leachate Indicators

Chloride, ammonia and total phenols were detected above groundwater standards in the collected samples, as follows:

- Chloride was detected above the Class GA groundwater standard of 250 mg/l in 4 of the 13 groundwater monitoring wells, with concentrations ranging from 294 mg/l at MW-8B to a maximum of 383 mg/l at LF-2.
- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 8 of the 13 groundwater monitoring wells, with concentrations ranging from 2.2 mg/l at MW-9C to a maximum of 145 mg/l at LF-2.
- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l at MW-6C with a reported concentration of 0.011 mg/l.

### 3.3 Historical Groundwater Trends

Since the objective of the Post-Termination monitoring period (2017 through 2019), is to assess the impacts of turning off recovery wells (RW-1 and RW-2), D&B performed an interim trend analysis using the results from the five post-termination groundwater rounds, as well as for comparison purposes, six existing rounds of operational monitoring conducted in calendar years 2015 and 2016. As part of evaluating changes in groundwater quality during the time period described above, historical graphs depicting trend lines have been prepared for total volatile organic compounds (TVOCs), inorganic parameters and leachate indicators. These graphs are presented in **Appendix E**. It should be noted, for inorganic parameters and leachate indicators, historical graphs and trend lines were prepared for selected constituents which have exhibited concentrations exceeding NYSDEC Class GA groundwater standards or guidance values. The following provides a brief discussion for the trend analysis.

#### 3.3.1 Total Volatile Organic Compounds

During the Post-Termination period, seven monitoring wells (MW-05B, MW-06F, MW-08B, MW-09B, MW-09C, OBS-1 and LF-1), in general exhibited a fairly flat trend. Monitoring wells MW-06A, MW-06B and LF-2, in general exhibited a decreasing trend. For well MW-06E, TVOCs initially increased, however has shown a substantial decrease over the past two sampling events. Three wells (MW-06C, MW-08A and MW-09C) have exhibited a slight increase in TVOCs in comparison to historical data in 2015 and 2016.

#### 3.3.2 Inorganic Parameters

Historical graphs and trends lines have been established for the following inorganic parameters: iron, manganese and sodium. In general, these parameters exhibited either a decreasing or flat trend in all or nearly all of the wells.

### 3.3.3 Leachate Indicators

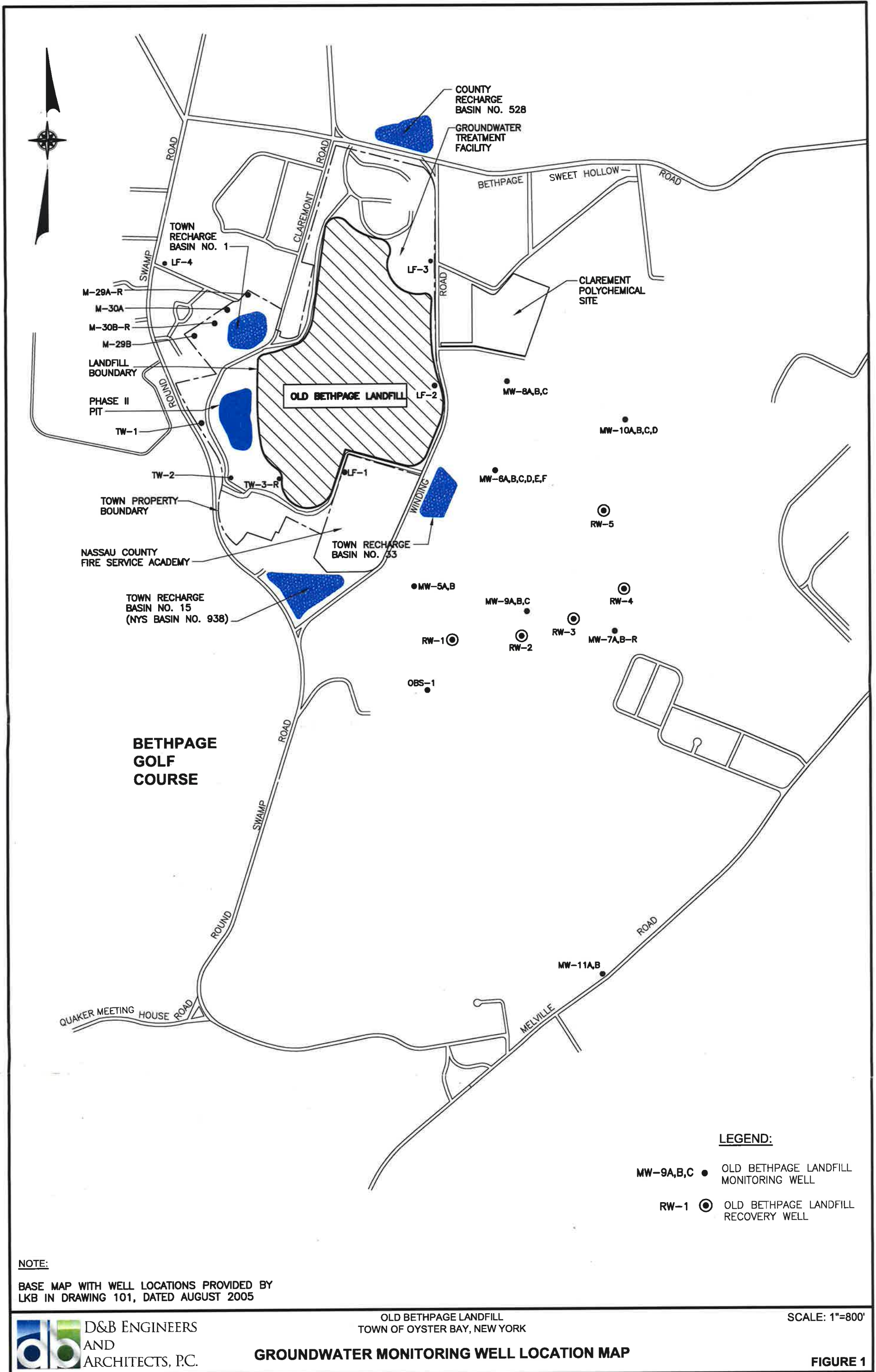
The following leachate indicators which exceeded the Class GA groundwater standards included: ammonia, chloride and total phenols. In general, these leachate indicators exhibited either a decreasing or relatively flat trend in the majority of the wells.

#### 4.0 CONCLUSIONS

The first semiannual groundwater sampling event of 2019 described in this report is the fifth sampling round and report completed under the Post-Termination Groundwater Monitoring Program. The Town will continue the Post-Termination Monitoring program, which will be performed semi-annually for three years, for a total of six rounds. Each report will include all previously collected Post-Termination data, and the final report will evaluate if the termination criteria described in Appendix A, Section III of the Consent Decree has been met. Previously collected Post-Termination data is provided in **Appendix F**.

The concentrations of VOCs, metals and leachate indicators detected during the first semiannual groundwater sampling event of 2019, including those detected above Class GA groundwater standards and guidance values, appear to be generally consistent with historical results.

## FIGURES



**LEGEND:**

- MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL
- RW-1 ⊙ OLD BETHPAGE LANDFILL RECOVERY WELL

**NOTE:**

BASE MAP WITH WELL LOCATIONS PROVIDED BY LKB IN DRAWING 101, DATED AUGUST 2005



OLD BETHPAGE LANDFILL  
 TOWN OF OYSTER BAY, NEW YORK  
**GROUNDWATER MONITORING WELL LOCATION MAP**

SCALE: 1"=800'

**FIGURE 1**

M:\Projects\2005\20050817\20050817.dwg, 10/20/2005, 10:20:00 AM, 10/20/2005, 10:20:00 AM, 10/20/2005, 10:20:00 AM, 10/20/2005, 10:20:00 AM

## TABLES



Table 1  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 05/24/19	LF-2 05/23/19	MW-05B 05/22/19	MW-06A 05/23/19	MW-06B 05/23/19	MW-06C 05/23/19	MW-06E 05/23/19	MW-06F 05/23/19	MW-08A 05/22/19	MW-08B 05/22/19	MW-09B 05/22/19	MW-09C 05/22/19	OBS-1 05/22/19
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	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	5	1 U	1 U	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	5	1 U	1 U	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	3	1 U	1 U	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	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 U	1 U
1,2-Dichloropropane	1	1 U	1 U	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	3	1 U	1 U	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	3	1 U	1.6	1 U	1 U	2.4	1.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	2.3	1 U	1 U	2.1	0.92 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1.2	1 U	1 U	5.4	2.3	2.2	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	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-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	5	1 U	1 U	2.7	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.2	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	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	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1.9	1 U	1.1	3.2	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	10.1	ND	1.2	12.6	5.9	2.2	ND	14.1	ND	1.1	3.2	ND

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

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

Table 2  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Total and Dissolved Metals

Sample ID	LF-1	LF-1	LF-2	LF-2	MW-5B	MW-5B	MW-6A	MW-6A	MW-6B	MW-6B	MW-6C	MW-6C	MW-6E
Sample Date	05/24/19	05/24/19	05/23/19	05/23/19	05/22/19	05/22/19	05/23/19	05/23/19	05/23/19	05/23/19	05/23/19	05/23/19	05/23/19
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U
Barium	1000	71.2 J	69 J	47 J	45.8 J	38 J	36.9 J	50.1 J	46.7 J	53.3 J	50.9 J	46.7 J	21.6 J
Calcium	-	13100	13000	29800	29100	13000	12700	3130	3000	18000	17200	52700	24500
Chromium	50	10 U	10 U	13.8	5.8 J	3 J	10 U	3.7 J	10 U	7.7 J	10 U	3.8 J	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	<b>9520</b>	<b>8970 J</b>	<b>7280</b>	<b>7180 J</b>	25.4 UB	20 UJ	29.4 UB	13.2 J	<b>10800</b>	<b>9570 J</b>	<b>6700</b>	<b>3070 J</b>
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	10100	9990	20400	19500	5810	5660	3110	2930	14500	13600	21000	9730
Manganese	300 #	<b>1930</b>	<b>1870</b>	<b>162</b>	<b>151</b>	<b>3690</b>	<b>3530</b>	21.4	17.4	<b>53.3</b>	<b>47.2</b>	<b>131</b>	<b>61.3</b>
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.03 J	0.2 U	0.07 J	0.2 U	0.2 U	0.2 U	0.04 J	0.2 U	0.03 J
Nickel	100	8.1 J	7.6 J	18.9 J	15.2 J	9.7 J	6.9 J	9.4 J	7.5 J	11.9 J	7.2 J	23 J	9.6 J
Potassium	-	16800	16000	132000	128000	11300	10800	3580 J	3200 J	92200	87000	139000	63000
Sodium	20000	<b>59700</b>	<b>58700</b>	<b>420000</b>	<b>411000</b>	<b>62900</b>	<b>61200</b>	17600	16100	<b>217000</b>	<b>207000</b>	<b>429000</b>	<b>207000</b>
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	12 J	8.7 J	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:  
 ug/l Micrograms per liter  
 # Standard for total iron and manganese is 500 ug/l  
 U Compound was analyzed for but not detected  
 J Estimated detection limit or value  
 UB Non-detect based on blank results  
 -- No standard  
**Exceeds NYSDEC Class GA Standard or Guidance Value**



Table 2  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Total and Dissolved Metals

Sample ID	MW-6E	MW-6F	MW-6F	MW-8A	MW-8A	MW-8B	MW-8B	MW-9B	MW-9B	MW-9C	MW-9C	OBS-1	OBS-1	
Sample Date	05/23/19	05/23/19	05/23/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	
Type:	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 UJ	155 J	139 J	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ
Barium	1000	210	212	203	55.8 J	55.7 J	141 J	141 J	80.4 J	77.2 J	53.7 J	51.8 J	50.6 J	49.3 J
Calcium	--	33300	36900	35400	12500	12600	23100	23400	11700	11700	7910	7660	16900	16600
Chromium	50	10 U	4 J	10 U	6.1 J	10 U	4 J	10 U	3.9 J	10 U	5.1 J	10 U	3 J	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	5.3 J	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	<b>16000 J</b>	137	99.6 J	48.6 UB	6 J	32.6 UB	<b>8 J</b>	38.2 UB	<b>12.9 J</b>	35.7 UB	20 UJ	65.5 UB	<b>39.8 J</b>
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	15400	14500	13900	5110	5210	7890	7980	5040	5040	8750	8480	13200	13000
Manganese	300 #	<b>467</b>	119	107	75.1	66.4	<b>1120</b>	<b>1110</b>	<b>2630</b>	<b>2440</b>	156	140	<b>2430</b>	<b>2330</b>
Mercury	0.7	0.2 U	0.21	0.1 J	0.2 U	0.07 J	0.2 U	0.13 J	0.2 U	0.05 J	0.2 U	0.06 J	0.2 U	0.05 J
Nickel	100	13.4 J	28.9 J	25.9 J	9.3 J	6 J	27.9 J	25.5 J	5.5 J	40 U	6.6 J	4.9 J	6.5 J	40 U
Potassium	--	38500	8570	8400	6420	6290	10800	10600	8580	8500	12000	11500	24500	23600
Sodium	20000	<b>166000</b>	<b>127000</b>	<b>123000</b>	<b>41700</b>	<b>42000</b>	<b>150000</b>	<b>151000</b>	<b>52700</b>	<b>52300</b>	<b>65100</b>	<b>62900</b>	<b>62100</b>	<b>60500</b>
Zinc	2000	15.1 J	29.3	27.1	17.7 J	16.9 J	66	65.9	12.6 J	10.5 J	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:  
 ug/l Micrograms per liter  
 # Standard for total iron and manganese is 500 ug/l  
 U Compound was analyzed for but not detected  
 J Estimated detection limit or value  
 UB Non-detect based on blank results  
 -- No standard  
**Exceeds NYSDEC Class GA Standard or Guidance Value**

Table 3  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 05/24/19	LF-2 05/23/19	MW-05B 05/22/19	MW-06A 05/23/19	MW-06B 05/23/19	MW-06C 05/23/19	MW-06E 05/23/19	MW-06F 05/23/19	MW-08A 05/22/19	MW-08B 05/22/19	MW-09B 05/22/19	MW-09C 05/22/19
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	---	117	1230	30.3	2.5	808	620	217	1.0 U	21.6	4.1	30.3	38.9
Alkalinity,Bicarbonate	---	117	1230	30.3	2.5	808	620	217	1.0 U	21.6	4.1	30.3	38.9
Alkalinity,Carbonate	---	1.0 U	1230	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloride	250	76.2	<b>383</b>	94.8	20.5	231	228	<b>325</b>	<b>374</b>	47.4	<b>294</b>	76.9	102
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.004 J	0.0036 J	0.0036 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	---	25.0	100	53.3	14.0	80.0	70.0	80.0	120	40.0	85.0	46.7	43.3
Hexavalent Chromium	0.05	0.020 UJ	0.10 U	0.020 U	0.020 U	0.10 U	0.10 U	0.10 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	<b>11.7</b>	<b>145</b>	0.10 U	1.1	<b>96.5</b>	<b>66.5</b>	<b>36.0</b>	<b>3.3</b>	0.72	0.32 UB	1.7	<b>2.2</b>
Nitrogen, Kjeldahl, Total	---	11.2 J	131	0.10 U	0.77	137	128	37.2	0.58	0.18	0.15	0.86	2.0
Nitrate	10	0.47	0.050 UJ	4.7	1.5 J	0.050 UJ	0.050 UJ	2.3 J	3.6	2.3	1.1	4.6	2.3
Nitrite	1	0.050 U	0.050 U	0.13 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.010 U	0.010 U	0.010 U	<b>0.011</b>	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	250	36.6	5.0 U	24.3	13.3	5.0 U	4.7 J	24.7	5.0 U	27.9	31.6	20.7	21.4
Total Dissolved Solids	---	400 J	1690 J	362 J	224 J	996 J	896 J	1100 J	666 J	179 J	718 J	308 J	310 J

Footnotes/Qualifiers:

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

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



Table 3  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Leachate Indicator Parameters

Sample ID Sample Date		OBS-1 05/22/19
Units in mg/l		
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value	
Alkalinity, Total	---	186
Alkalinity, Bicarbonate	---	186
Alkalinity, Carbonate	---	1.0 U
Chloride	250	77.3
Cyanide	0.2	0.01 U
Hardness	---	85.0
Hexavalent Chromium	0.05	0.020 U
Nitrogen, Ammonia	2	<b>19.7</b>
Nitrogen, Kjeldahl, Total	---	18.0
Nitrate	10	0.42
Nitrite	1	0.050 U
Phenolics, Total	0.001	0.010 U
Sulfate	250	32.0
Total Dissolved Solids	---	498 J

**APPENDIX A**

**GROUNDWATER SAMPLING LOGS**

**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/24/19

WELL ID: LF-1 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: KR \_\_\_\_\_

Depth of well (feet from top of casing) ..... 102.00'  
 Initial static water level (feet from top of casing) ..... 43.82'  
 Approximate Pump Inlet (feet from top of casing) ..... 49'

Purging Method Well Volume Calculation:

Airlift	<u>      </u>	Centrifugal	<u>      </u>	2 in. casing:	<u>      </u>	ft. of water x 0.16 =	<u>      </u>	gallons
Bailer	<u>      </u>	Pos. Displ.	<u>      </u>	3 in. casing:	<u>      </u>	ft. of water x 0.36 =	<u>      </u>	gallons
Submersible Pump	<u>  X  </u>	Disposable Bladder Pump (Low Flow)	<u>      </u>	6 in. casing:	<u>58.18</u>	ft. of water x 1.47 =	<u>  86  </u>	gallons

volume of water removed:   380   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)
Initial	7.69	17.42	0.445	0.0	13.55	105
100	7.48	16.94	0.493	0.0	1.06	-87
150	7.53	16.90	0.492	0.0	3.00	-99
200	7.58	16.88	0.490	0.0	3.33	-101
250	7.66	16.88	0.488	0.0	3.89	-110
300	7.69	16.88	0.485	0.0	3.52	-112
350	7.72	16.88	0.484	0.0	3.96	-115
380	7.73	16.89	0.483	0.0	3.94	-117

Purging Rate:   3   GPM      Purging Time:  129  min      Sampling Rate:  0.1/min VOCs / 0.5/min Other Analytes 

Sampling

Time of Sample Collection:  11:40 a.m. 

Method: Analyses: Pace Analytical

<u>  X  </u> Submersible Pump	<u>  X  </u> VOCs
<u>  X  </u> In-Line Filter (Diss. Metals)	
<u>      </u> Pos. Disp. Pump	<u>  X  </u> Total & Dissolved Metals
<u>      </u> Disposable bailer	<u>      </u> Leachate
<u>      </u> Dedicated pump	<u>  X  </u> Parameters

Observations

Weather/Temperature:  Sunny Clear, 65-75 F. 

Sample description:  Clear 

Free Product? yes	<u>      </u>	no	<u>  X  </u>	describe	<u>      </u>
Sheen? yes	<u>      </u>	no	<u>  X  </u>	describe	<u>      </u>
Odor? yes	<u>      </u>	no	<u>  X  </u>	describe	<u>      </u>



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/23/19

WELL ID: LF-2 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 102.10'  
 Initial static water level (feet from top of casing) ..... 51.55'  
 Approximate Pump Inlet (feet from top of casing) ..... 56'

**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: 50.55 ft. of water x 1.47 = 74.3 gallons

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

**Field Tests**

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	8.09	16.62	3.05	0.8	0.00	-194
100	8.02	16.63	3.45	0.0	0.00	-198
200	8.08	16.63	3.45	0.0	0.00	-189
250	8.08	16.64	3.42	0.0	0.00	-188
300	8.09	16.63	3.36	0.0	0.00	-190
350	8.10	16.63	3.39	0.0	0.00	-190

Purging Rate: 5 GPM

Purging Time: 65 min

Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

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

**Method:**

X Submersible Pump  
X In-line filter (Diss. metals)  
 \_\_\_\_\_ Pos. Disp. Pump  
 \_\_\_\_\_ Disposable bailer  
 \_\_\_\_\_ Dedicated pump

**Analyses: Pace Analytical**

X VOCs  
 \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Leachate  
X Parameters

**Observations**

Weather/Temperature: Cloudy/ light rain 55-60 F.

Sample description: Clear - Yellow tint.

Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes X no \_\_\_\_\_ describe Sulfur-like odor





**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/22/19

WELL ID: MW-05B Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 117.25'  
 Initial static water level (feet from top of casing) ..... 71.79'  
 Approximate Pump Inlet (feet from top of casing) ..... 77'

**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  
 4 in. casing: 45.46 ft. of water x 0.65 = 29.5 gallons

volume of water removed: 165 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)
Initial	7.08	15.70	0.469	2,3	13.75	259
60	5.94	15.59	0.476	0.0	3.80	238
90	5.93	15.53	0.477	0.0	2.52	228
120	5.94	15.48	0.477	0.0	0.84	216
150	6.00	15.46	0.478	0.0	0.00	207
165	6.03	15.47	0.478	0.0	0.00	205

Purging Rate: 3 GPM Purging Time: 55 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

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

Method: X Submersible Pump X In-Line Filter (Diss. Metals) \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_ Disposable bailer \_\_\_\_\_ Dedicated pump \_\_\_\_\_  
 Analyses: Pace Analytical X VOCs \_\_\_\_\_ X Total & Dissolved Metals Leachate \_\_\_\_\_ X Parameters

**Observations**

Weather/Temperature: Sunny Clear, 60 -70 F  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

Note: Collected Blind Duplicate at well MW-05B



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/23/2019

WELL ID: MW-06A Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR \_\_\_\_\_

Depth of well (feet from top of casing) ..... 100.40'  
 Initial static water level (feet from top of casing) ..... 94.5'  
 Approximate Pump Inlet (feet from top of casing)..... 100'

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  
 4 in. casing: 5.9 ft. of water x 0.65 = 3.8 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)
Initial	6.13	15.92	0.138	4.7	11.05	153
10	5.03	15.28	0.136	0.0	8.46	218
20	5.42	15.95	0.128	0.0	10.66	240
25	5.39	15.94	0.127	0.0	11.05	252
30	5.40	15.96	0.127	0.0	9.55	257
35	5.58	15.91	0.125	0.0	9.82	257

Purging Rate: 1 GPM Purging Time: 45 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes  
0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

Time of Sample Collection: 6:00 p.m.

Method: \_\_\_\_\_ Analyses: Pace Analytical ab  
X Stainless steel bailer X VOCs  
X In-line filter (Diss Metals) \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump X Total & Dissolved Metals  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_ Leachate  
 \_\_\_\_\_ \_\_\_\_\_ X Parameters  
 \_\_\_\_\_ Dedicated pump \_\_\_\_\_

**Observations**

Weather/Temperature: Cloudy/cool 55-65 F  
 Sample description: clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/23/2019

WELL ID: MW-06B Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR \_\_\_\_\_

Depth of well (feet from top of casing) ..... 134.90'  
 Initial static water level (feet from top of casing) ..... 94.55'  
 Approximate Pump Inlet (feet from top of casing) ..... 100'

**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  
 4 in. casing: 40.35 ft. of water x 0.65 = 26.2 gallons

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

**Field Tests**

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.10	17.40	3.14	38.8	4.39	-92
40	7.06	17.88	3.35	62	1.26	-113
80	7.10	17.86	3.42	9	0.76	-113
100	7.11	17.92	3.39	18.4	0.60	-117
120	7.12	17.90	3.38	27.4	0.60	-119
140	7.12	17.86	3.37	23.3	0.57	-120

Purging Rate: 2 GPM Purging Time: 70 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

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

Method: X Submersible Pump Analyses: X Pace Analytical  
X In-Line Filter (Diss. Metals) X VOCs  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_ X Total & Dissolved Metals  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_ Leachate  
 \_\_\_\_\_ Dedicated pump \_\_\_\_\_ X Parameters

**Observations**

Weather/Temperature: Cloudy 55-65 F  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/23/2019

WELL ID: MW-06C Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR \_\_\_\_\_

Depth of well (feet from top of casing) ..... 160.90'  
 Initial static water level (feet from top of casing) ..... 94.00'  
 Approximate Pump Inlet (feet from top of casing)..... 99'

Purging Method Well Volume Calculation:

Airlift _____	Centrifugal _____	2 in. casing: _____ ft. of water x 0.16 = _____ gallons
Bailer _____	Pos. Displ. _____	3 in. casing: _____ ft. of water x 0.36 = _____ gallons
Submersible _____	Disposable _____	4 in. casing: <u>66.9</u> ft. of water x 0.65 = <u>43.48</u> gallons
Pump <u>X</u>	Bladder Pump _____	
	(Low Flow) _____	

volume of water removed: 225 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)
Initial	6.94	17.96	1.95	7.7	16.74	-77
50	7.17	18.26	2.38	8.5	1.21	-116
125	7.15	18.26	2.45	44.1	0.74	-120
150	7.14	18.26	2.62	0.0	1.36	-109
175	7.13	18.28	2.66	0.0	1.43	-114
200	7.15	18.30	2.63	13.9	0.81	-116
225	7.16	18.30	2.62	0.0	0.82	-116

Purging Rate: 2.5 GPM Purging Time: 90 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

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

Method:	Analyses: Pace Analytical
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
_____ Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
_____ Disposable bailer	Leachate
_____ Dedicated pump	<u>X</u> Parameters

**Observations**

Weather/Temperature: Cloudy, cool 55-65 F  
 Sample description: Clear

Free Product? yes _____	no <u>X</u>	describe _____
Sheen? yes _____	no <u>X</u>	describe _____
Odor? yes <u>X</u>	no _____	describe <u>Slight landfill like odor</u>



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/23/2019

WELL ID: MW-06E Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 251' historical log  
 Initial static water level (feet from top of casing) ..... 92.20'  
 Approximate Pump Inlet (feet from top of casing) ..... 98'

**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  
 4 in. casing: 155.28 ft. of water x 0.65 = 101.27 gallons

volume of water removed: 420 gal. >3 volumes: yes X no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.61	16.78	1.86	7.3	0.0	-142
60	7.47	17.01	1.79	57	0.0	-130
120	7.26	16.82	1.63	56	0.0	-102
180	7.30	16.82	1.61	2	0.0	-98
240	7.36	16.85	1.59	0	0.0	-101
300	7.36	16.82	1.54	0	0.0	-99
360	7.34	16.79	1.53	0	0.0	-91
420	7.32	16.80	1.51	0	0.0	-88

Purging Rate: 3.0 GPM Purging Time: 140 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

Time of Sample Collection: 4:55 p.m.

Method: \_\_\_\_\_ Analyses: Pace Analytical  
X Submersible Pump X VOCs  
X In-Line Filter (Diss. Metals)  
 \_\_\_\_\_ Pos. Disp. Pump X Total & Dissolved Metals  
 \_\_\_\_\_ Disposable bailer Leachate  
 \_\_\_\_\_ X Parameters  
 \_\_\_\_\_ Dedicated pump

**Observations**

Weather/Temperature: Cloudy cool 55-65 F  
 Sample description: Clear.  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/23/2019

WELL ID: MW-06F Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 349' historical log  
 Initial static water level (feet from top of casing) ..... 94.60'  
 Approximate Pump Inlet (feet from top of casing) ..... 100'

**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  
 4 in. casing: 254.4 ft. of water x 0.65 = 165 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)
Initial	4.70	16.11	0.749	0	3.39	307
100	4.70	16.97	0.699	0	4.87	278
150	4.61	16.04	0.754	0	0.0	286
200	4.41	15.31	0.801	0	0.0	310
250	4.36	15.23	0.822	0	0.0	321
300	4.36	15.17	0.831	0	0.0	326
350	4.42	15.15	0.836	0	0.0	328
400	4.44	15.14	0.843	0	0.0	329
450	4.50	15.11	0.856	0	0.0	329
500	4.53	15.11	0.863	0	0.0	330

Purging Rate: 5.0 GPM

Purging Time: 100 min

Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

Time of Sample Collection: 1:15 p.m.

**Method:**

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

**Analyses:** Pace Analytical

X VOCs  
 \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Leachate  
X Parameters

**Observations**

Weather/Temperature: Cloudy cool 55-65 F

Sample description: Clear

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



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/22/2019

WELL ID: MW-08A Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR \_\_\_\_\_

Depth of well (feet from top of casing) ..... 80.70'  
 Initial static water level (feet from top of casing) ..... 68.36'  
 Approximate Pump Inlet (feet from top of casing) ..... 74'

**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  
 4 in. casing: 12.34' ft. of water x 0.65 = 8 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)
Initial	5.04	14.09	0.091	10.5	12.46	328
10	3.97	13.17	0.105	5.2	10.02	242
15	4.00	13.11	0.148	3.1	9.05	348
25	4.20	13.02	0.210	0.7	5.60	324
30	4.63	12.97	0.245	0.9	5.44	322
35	4.88	12.97	0.288	0.1	4.68	314
40	5.00	12.94	0.301	0.0	4.66	304

Purging Rate: 1.25 GPM

Purging Time: 32 min

Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

Time of Sample Collection: 6:00 p.m.

**Method:**

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

**Analyses:** Pace Analytical

X VOCs  
X Total & Dissolved Metals  
 \_\_\_\_\_ Leachate  
X Parameters

**Observations**

Weather/Temperature: Sunny Clear, 60-70 F

Sample description: Clear

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



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/22/2019

WELL ID: MW-08B Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 160.20'  
 Initial static water level (feet from top of casing) ..... 67.80'  
 Approximate Pump Inlet (feet from top of casing) ..... 73'

**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  
 4 in. casing: 92.4 ft. of water x 0.65 = 60 gallons

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

**Field Tests**

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.58	14.00	0.772	3.9	18.20	240
30	6.23	13.29	0.792	14.6	1.15	188
60	5.65	13.20	0.911	15	0.0	197
90	5.31	13.11	0.975	12	0.0	222
120	5.25	13.08	0.992	13	0.0	231
150	5.27	13.11	1.00	2.9	0.0	241
180	5.23	13.08	1.01	2.4	0.0	251
210	5.15	13.04	1.02	2.4	0.0	266
240	5.18	13.04	1.02	0.2	0.0	268

Purging Rate: 2.5 GPM Purging Time: 96 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

Time of Sample Collection: 4:45 p.m.

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

**Observations**

Weather/Temperature: Sunny, clear, warm 60-70 F  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_





**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/22/2019

WELL ID: MW-09B Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 169.10  
 Initial static water level (feet from top of casing) ..... 89.81  
 Approximate Pump Inlet (feet from top of casing) ..... 95'

**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  
 4 in. casing: 79.29 ft. of water x 0.65 = 51.5 gallons

volume of water removed: 225 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)
Initial	5.28	16.38	0.571	0.0	7.14	322
30	5.12	15.26	0.526	0.0	1.70	321
60	5.19	15.29	0.513	0.0	1.08	313
90	5.26	15.23	0.514	0.0	1.31	304
120	5.31	15.21	0.515	0.0	1.13	288
150	5.34	15.21	0.517	0.0	1.09	285
180	5.37	15.17	0.519	0.0	1.05	283
210	5.42	15.20	0.520	0.0	1.01	281
225	5.43	15.19	0.521	0.0	1.00	281

Purging Rate: 3 GPM Purging Time: 75 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

Time of Sample Collection: 11:40 a.m.

Method: X Submersible Pump X Analyses: Pace Analytical  
X In-Line Filter (Diss. Metals) X VOCs  
 \_\_\_\_\_ Pos. Disp. Pump X Total & Dissolved Metals  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_ Leachate  
 \_\_\_\_\_ Dedicated pump X Parameters

**Observations**

Weather/Temperature: Sunny, clear 60-70 F  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/22/2019

WELL ID: MW-09C Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR \_\_\_\_\_

Depth of well (feet from top of casing) ..... 225' historical log  
 Initial static water level (feet from top of casing) ..... 90.51'  
 Approximate Pump Inlet (feet from top of casing) ..... 96'

**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  
 4 in. casing: 134.49 ft. of water x 0.65 = 87.4 gallons

volume of water removed: 375 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)
Initial	5.88	13.61	0.215	4.3	7.57	285
100	5.52	14.29	0.395	1.0	4.85	288
150	5.84	14.34	0.477	0.4	2.30	262
200	5.95	14.34	0.486	0.1	0.0	246
250	6.00	14.33	0.488	0.1	0.0	235
300	6.04	14.32	0.489	0.0	0.0	229
350	6.07	14.32	0.490	0.0	0.0	223
375	6.09	14.32	0.490	0.0	0.0	219

Purging Rate: 5.0 GPM

Purging Time: 75 min

Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

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

**Method:**

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

**Analyses: Pace Analytical**

X VOCs  
 \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Leachate  
X Parameters

**Observations**

Weather/Temperature: Sunny, clear skies 60-70 F

Sample description: Clear

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



**TOWN OF OYSTER BAY LANDFILL SAMPLING  
FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 5/22/2019

WELL ID: OBS-1 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: DR, KR

Depth of well (feet from top of casing) ..... 194.75'  
 Initial static water level (feet from top of casing) ..... 46.76'  
 Approximate Pump Inlet (feet from top of casing) ..... 52'

**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  
 4 in. casing: 147.99 ft. of water x 0.65 = 96.1 gallons

volume of water removed: 425 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)
Initial	6.45	14.59	0.454	2.3	2.14	186
100	6.37	15.24	0.667	11.1	0.0	56
150	6.39	15.23	0.657	16.7	0.0	57
200	6.41	15.25	0.644	21.8	0.0	59
250	6.42	15.27	0.644	26.9	0.0	62
300	6.46	15.30	0.627	35.8	0.0	64
350	6.82	15.29	0.681	0	0.0	50
400	6.81	15.29	0.674	0	0.0	51
425	6.81	15.29	0.671	0	0.0	52

Purging Rate: 5 GPM Purging Time: 85 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

**Sampling**

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

Method: \_\_\_\_\_ Analyses: Pace Analytical

X Submersible Pump X VOCs  
X In-Line Filter (Diss. Metals)  
 \_\_\_\_\_ Pos. Disp. Pump X Total & Dissolved Metals  
 \_\_\_\_\_ Disposable bailer X Parameters  
 \_\_\_\_\_ Leachate

**Observations**

Weather/Temperature: Sunny, warm 0-70 F

Sample description: Clear

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



**APPENDIX B**

**CHAIN OF CUSTODY FORMS**





WO#: 7090528

**CHAIN-OF-CUSTODY / Analytical Request Doc**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out.

PM: JSA Due Date: 06/07/19  
 CLIENT: TOY

**Section A: Required Client Information:**  
 Company: Town of Oyster Bay  
 Address: 150 Miller Place  
 Phone: NONE  
 Requested Due Date: 6/7/19

**Section B: Required Project Information:**  
 Report To: Russo Matt  
 Copy To: Anthony Contino  
 Attention: Anthony Contino  
 Company Name: Dyer Enterprises, Inc.  
 Address: 300 Camp Leaf Drive  
 Project Name: Oic Bethpage Landfill  
 Project # 3610 (P14)  
 Purchase Order #  
 Project Manager: Jennifer Arant@psceceabs.com  
 Pace Profile # 6465

**Section C: Invoicing Information:**  
 Regulator Agency  
 State / Location: NY

ITEM #	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			START	END									
1	Trip Blank - 5/24/19	AG	5/24/19	5:00 PM	5/24/19	5:00 PM	Patrick M. O'Connell / PANT-12	5/24/19	3:00 PM	Patrick M. O'Connell / PANT-12	5/24/19	4:15 PM	Y N P
2	L.F. - 5/24/19	GC	5/24/19	11:00 AM	5/24/19	11:00 AM	Patrick M. O'Connell / PANT-12	5/24/19	11:00 AM	Patrick M. O'Connell / PANT-12	5/24/19	11:00 AM	Y N P
3	Field Blank - 5/24/19	AG	5/24/19	5:00 PM	5/24/19	5:00 PM	Patrick M. O'Connell / PANT-12	5/24/19	5:00 PM	Patrick M. O'Connell / PANT-12	5/24/19	5:00 PM	Y N P
4													
5													
6													
7													
8													
9													
10													
11													
12													

**ADDITIONAL COMMENTS:**  
 Oic Bethpage Landfill  
 Please to City of Oyster Bay  
 6/7/19  
 Job completed as of 5/24/19.

**TEMP IN C:**  
 Received on: [ ]  
 Sealed: [ ]  
 Cooler: [ ]  
 Samples (Y/N): [ ]

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: K. O'Connell  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed: 5-24-19

**APPENDIX C**

**DATA VALIDATION CHECKLIST**



## DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill	
Project Number:	3617	
Sample Date(s):	May 22-24, 2019	
Sample Team:	Keith Robins	
Matrix/Number of Samples:	Water/ 13 Field Duplicates/ 1 Trip Blanks / 3 Field Blanks/ 1	
Analyzing Laboratory:	Pace Analytical, Melville, NY for all analysis except phenolics which was subcontracted to EnviroTest Laboratories, Inc, Newburgh, NY	
Analyses:	<u>Volatile Organic Compounds (VOCs)</u> : by SW846 8260C <u>Metals</u> : Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 <u>General Chemistry</u> : Alkalinity (SM2320B), Hardness (SM2340C), Total Dissolved Solids (SM 2540C), Hexavalent Chromium (SM22 3500), Chloride and Sulfate (USEPA 300.0), Total Kjeldahl Nitrogen (TKN) (USEPA 351.2), Nitrate-Nitrite and Nitrite (USEPA 353.2), Cyanide (SM 4500) and Ammonia (SM22 4500). Phenolics (USEPA 420.4) by EnvrioTest.	
Laboratory Report No:	7090528	Date: 6/14/2019

## 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:

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, January 2017, or USEPA National Functional Guidelines of Inorganic Data Review, January 2017,, 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:7090528  
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	7090528001	5/22/2019		X				
OBS-1	7090528002-3	5/22/2019		X			X	X
MW-09B	7090528004-5	5/22/2019		X			X	X
MW-09C	7090528006-7	5/22/2019		X			X	X
BLIND DUPLICATE	7090528008-9	5/22/2019	MW-05B	X			X	X
MW-05B	7090528010-11	5/22/2019		X			X	X
MW-08B	7090528012-13	5/22/2019		X			X	X
MW-08A	7090528014-15	5/22/2019		X			X	X
TRIP BLANK	7090528016	5/23/2019		X				
LF-2	7090528017-18	5/23/2019		X			X	X
MW-06F	7090528019-20	5/23/2019		X			X	X
MW-06C	7090528021-22	5/23/2019		X			X	X
MW-06B	7090528023-24	5/23/2019		X			X	X
MW-06E	7090528025-26	5/23/2019		X			X	X
MW-06A	7090528027-28	5/23/2019		X			X	X
TRIP BLANK	7090528029	5/24/2019		X				
LF-1	7090528030-31	5/24/2019		X			X	X
FIELD BLANK	7090528032-33	5/24/2019		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		X	
3. Matrix spike (MS) %R		X	X		
4. Duplicate RPD		X		X	
5. Laboratory control sample (LCS) %R		X		X	
6. Surrogate spike recoveries		X		X	
7. Field duplicate		X		X	

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable, except the following:

- The %R was below the QC limit for bromoform in the LCS and MS and was qualified as an estimated detection limit in all samples (UJ).

**INORGANIC ANALYSES  
METALS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X	X		
3. Laboratory control sample %R		X		X	
4. Spike sample %R		X	X		
5. Duplicate RPD		X	X		
6. Total verse dissolved results		X		X	
7. Field duplicate		X		X	

%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable, except the following:

- 2B. Total barium, calcium, iron and magnesium were detected in the Field Blank. Total iron was qualified as non-detect (UB) in samples MW-5B, BLIND DUPLICATE, MW-6A, MW-8A, MW-8B, MW-9B, MW-9C and OBS-1.
- 4&5. The dissolved aluminum and iron %Rs were above the QC limits in the spike sample and had RPD above the QC limit in the duplicate. Dissolved aluminum and iron were qualified as estimated (UJ/J) in all samples.

**INORGANIC ANALYSES  
GENERAL CHEMISTRY**

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

%R - percent recovery

RPD - relative percent difference

%D - percent difference

RSD - relative standard deviation

**Comments:**

Performance was acceptable, except the following:


- 2B. Ammonia was detected in the Field Blank and was qualified as non-detect (UB) in sample MW-08B.
- 5. The %Rs for hexavalent chromium and total kjeldahl nitrogen were below the QC limits in the MS associated with samples LF-1 and FIELD BLANK and nitrate associated with samples LF-2, MW-06F, MW-06C, MW-06B, MW-06E, MW-06A, LF-1 and FIELD BLANK. They were qualified as estimated (J/UJ) in the associated samples.

The %Rs were above the QC limits in the MS for total dissolved solids and nitrite associated with all samples. Total dissolved solids in all samples and nitrite in samples MW-5S and BLIND DUPLICATE were detected and qualified as estimated (J).

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**

**Laboratory Numbers:7090528**

<u>Sample ID</u>	<u>Analyte(s)</u>	<u>Qualifier</u>	<u>Reason(s)</u>
<b><u>VOCs</u></b>			
All samples	Bromoform	UJ	%R was below the QC limit for in the LCS
<b><u>Metals</u></b>			
MW-5B, BLIND DUPLICATE, MW-6A, MW-8A, MW-8B, MW-9B, MW-9C and OBS-1	Total iron	UB	Detected in the Field Blank
All sample	Dissolved aluminum and iron	UJ/J	%Rs were above the QC limits in the spike sample and had RPD above the QC limit in the duplicate
<b><u>General Chemistry</u></b>			
MW-08B	Ammonia	UB	detected in the Field Blank
LF-1 and FIELD BLANK	Hexavalent chromium and total kjeldahl nitrogen	J/UJ	The %Rs were below QC limits in the MS
LF-2, MW-06F, MW-06C, MW-06B, MW-06E, MW-06A, LF-1 and FIELD BLANK	Nitrate		
All samples	Total dissolved solids	J	The %R was above the QC limits in the MS and MSD
MW-5S and BLIND DUPLICATE	Nitrite		

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 7/15/2019
VALIDATION PERFORMED BY SIGNATURE:	

**APPENDIX D**

**LABORATORY DATA REPORTS**

June 14, 2019

Tom Fox  
Dvirka & Bartilucci  
330 Crossways Park Drive  
Woodbury, NY 11797

RE: Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Dear Tom Fox:

Enclosed are the analytical results for sample(s) received by the laboratory between May 22, 2019 and May 24, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Jennifer Aracri  
jennifer.aracri@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Keith Robins, Dvirka & Bartilucci



## REPORT OF LABORATORY ANALYSIS

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



## CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

---

### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

### Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747  
New York Certification #: 10478 Primary Accrediting Body  
New Jersey Certification #: NY158  
Pennsylvania Certification #: 68-00350  
Connecticut Certification #: PH-0435

Maryland Certification #: 208  
Rhode Island Certification #: LAO00340  
Massachusetts Certification #: M-NY026  
New Hampshire Certification #: 2987

---

## REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7090528001	TRIP BLANK_5/22/19	EPA 8260C/5030C	MJF	34	PACE-MV
7090528002	OBS-1_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528003	OBS-1_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528004	MW-09B_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528005	MW-09B_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528006	MW-09C_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV

### REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528007	MW-09C_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528008	BLIND DUPLICATE_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528009	BLIND DUPLICATE_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528010	MW-05B_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV

### REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528011	MW-05B_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528012	MW-08B_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528013	MW-08B_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528014	MW-08A_5/22/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV

### REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528015	MW-08A_5/22/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528016	TRIP BLANK_5/23/19	EPA 8260C/5030C	MJF	34	PACE-MV
7090528017	LF-2_5/23/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528018	LF-2_5/23/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	KM1	1	PACE-MV
7090528019	MW-06F_5/23/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV

### REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528020	MW-06F_5/23/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	KM1	1	PACE-MV
7090528021	MW-06C_5/23/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528022	MW-06C_5/23/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	KM1	1	PACE-MV
7090528023	MW-06B_5/23/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV

### REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7090528024	MW-06B_5/23/19 DISS	SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
7090528025	MW-06E_5/23/19	SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528026	MW-06E_5/23/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	KM1	1	PACE-MV
7090528027	MW-06A_5/23/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	KM1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		7090528028	MW-06A_5/23/19 DISS	EPA 200.7	JMW
245.1 Rev. 3.0, 1994	KAS			1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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

### SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 3500-Cr B	KM1	1	PACE-MV
7090528029	TRIP BLANK_5/24/19	EPA 8260C/5030C	MJF	34	PACE-MV
7090528030	LF-1_5/24/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528031	LF-1_5/24/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV
7090528032	FIELD BLANK_5/24/19	EPA 200.7	JMW	13	PACE-MV
		EPA 245.1	JMW	1	PACE-MV
		EPA 8260C/5030C	MJF	34	PACE-MV
		SM22 2320B	AK1	3	PACE-MV
		SM22 2340C	AK1	1	PACE-MV
		SM22 2540C	KS1	1	PACE-MV
		SM22 3500-Cr B	AK1	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		SM22 4500-CN-E	JM3	1	PACE-MV
		SM22 4500-CI-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
7090528033	FIELD BLANK_5/24/19 DISS	EPA 200.7	JMW	13	PACE-MV
		245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		SM22 3500-Cr B	AK1	1	PACE-MV

### REPORT OF LABORATORY ANALYSIS

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



### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: TRIP BLANK_5/22/19	Lab ID: 7090528001	Collected: 05/22/19 00:00	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 13:29	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 13:29	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 13:29	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 13:29	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 13:29	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 13:29	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 13:29	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 13:29	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 13:29	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 13:29	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:29	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:29	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:29	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 13:29	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 13:29	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 13:29	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 13:29	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 13:29	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 13:29	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 13:29	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:29	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 13:29	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 13:29	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 13:29	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 13:29	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	68-153	1		05/28/19 13:29	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-124	1		05/28/19 13:29	460-00-4	
Toluene-d8 (S)	88	%	69-124	1		05/28/19 13:29	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: OBS-1_5/22/19      Lab ID: 7090528002      Collected: 05/22/19 09:15      Received: 05/22/19 18:30      Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b> Analytical Method: EPA 200.7      Preparation Method: EPA 200.7								
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 12:52	7429-90-5	
Barium	50.6J	ug/L	200	1	06/04/19 09:09	06/11/19 12:52	7440-39-3	
Calcium	16900	ug/L	200	1	06/04/19 09:09	06/11/19 12:52	7440-70-2	
Chromium	3.0J	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:52	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 12:52	7440-50-8	
Iron	65.5J	ug/L	100	1	06/04/19 09:09	06/11/19 12:52	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 12:52	7439-92-1	
Magnesium	13200	ug/L	200	1	06/04/19 09:09	06/11/19 12:52	7439-95-4	
Manganese	2430	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:52	7439-96-5	
Nickel	6.5J	ug/L	40.0	1	06/04/19 09:09	06/11/19 12:52	7440-02-0	
Potassium	24500	ug/L	5000	1	06/04/19 09:09	06/11/19 12:52	7440-09-7	
Sodium	62100	ug/L	5000	1	06/04/19 09:09	06/11/19 12:52	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 12:52	7440-66-6	
<b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1								
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 10:53	7439-97-6	
<b>8260C Volatile Organics</b> Analytical Method: EPA 8260C/5030C								
Benzene	<1.0	ug/L	1.0	1		05/28/19 13:50	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 13:50	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 13:50	75-25-2	CL, L2, MO
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 13:50	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 13:50	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 13:50	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 13:50	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 13:50	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 13:50	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 13:50	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:50	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:50	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:50	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 13:50	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 13:50	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 13:50	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 13:50	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 13:50	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 13:50	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 13:50	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 13:50	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 13:50	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: OBS-1_5/22/19	Lab ID: 7090528002	Collected: 05/22/19 09:15	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 13:50	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 13:50	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 13:50	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	68-153	1		05/28/19 13:50	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-124	1		05/28/19 13:50	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		05/28/19 13:50	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	186	mg/L	1.0	1		05/31/19 18:58		
Alkalinity,Bicarbonate (CaCO3)	186	mg/L	1.0	1		05/31/19 18:58		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		05/31/19 18:58		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	85.0	mg/L	5.0	1		06/11/19 12:34		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	498	mg/L	20.0	1		05/29/19 09:59		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:11	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	32.0	mg/L	5.0	1		06/08/19 04:40	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	18.0	mg/L	1.0	10	06/07/19 05:57	06/07/19 13:15	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	0.42	mg/L	0.050	1		05/23/19 01:34	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/22/19 23:31	14797-65-0	M1
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:32	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	77.3	mg/L	10.0	5		06/07/19 12:17	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	19.7	mg/L	1.0	10		06/11/19 14:55	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: OBS-1_5/22/19 DISS</b>		<b>Lab ID: 7090528003</b>		Collected: 05/22/19 09:15	Received: 05/22/19 18:30	Matrix: Water		
<b>200.7 Metals, Dissolved</b> Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 14:50	7429-90-5	
Barium, Dissolved	49.3J	ug/L	200	1		06/11/19 14:50	7440-39-3	
Calcium, Dissolved	16600	ug/L	1000	1		06/11/19 14:50	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 14:50	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 14:50	7440-50-8	
Iron, Dissolved	39.8	ug/L	20.0	1		06/11/19 14:50	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 14:50	7439-92-1	
Magnesium, Dissolved	13000	ug/L	1000	1		06/11/19 14:50	7439-95-4	
Manganese, Dissolved	2330	ug/L	10.0	1		06/11/19 14:50	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		06/11/19 14:50	7440-02-0	
Potassium, Dissolved	23600	ug/L	5000	1		06/11/19 14:50	7440-09-7	
Sodium, Dissolved	60500	ug/L	5000	1		06/11/19 14:50	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 14:50	7440-66-6	
<b>245.1 Mercury, Dissolved</b> Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	0.050J	ug/L	0.20	1	06/13/19 11:16	06/13/19 17:47	7439-97-6	
<b>Chromium, Hexavalent</b> Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:11	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-09B_5/22/19      Lab ID: 7090528004      Collected: 05/22/19 11:40      Received: 05/22/19 18:30      Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b> Analytical Method: EPA 200.7      Preparation Method: EPA 200.7								
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 12:54	7429-90-5	
Barium	80.4J	ug/L	200	1	06/04/19 09:09	06/11/19 12:54	7440-39-3	
Calcium	11700	ug/L	200	1	06/04/19 09:09	06/11/19 12:54	7440-70-2	
Chromium	3.9J	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:54	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 12:54	7440-50-8	
Iron	38.2J	ug/L	100	1	06/04/19 09:09	06/11/19 12:54	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 12:54	7439-92-1	
Magnesium	5040	ug/L	200	1	06/04/19 09:09	06/11/19 12:54	7439-95-4	
Manganese	2630	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:54	7439-96-5	
Nickel	5.5J	ug/L	40.0	1	06/04/19 09:09	06/11/19 12:54	7440-02-0	
Potassium	8580	ug/L	5000	1	06/04/19 09:09	06/11/19 12:54	7440-09-7	
Sodium	52700	ug/L	5000	1	06/04/19 09:09	06/11/19 12:54	7440-23-5	
Zinc	12.6J	ug/L	20.0	1	06/04/19 09:09	06/11/19 12:54	7440-66-6	
<b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1								
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 10:59	7439-97-6	
<b>8260C Volatile Organics</b> Analytical Method: EPA 8260C/5030C								
Benzene	<1.0	ug/L	1.0	1		05/28/19 14:10	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 14:10	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 14:10	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 14:10	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 14:10	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 14:10	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 14:10	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 14:10	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 14:10	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 14:10	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 14:10	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 14:10	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 14:10	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 14:10	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 14:10	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 14:10	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 14:10	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 14:10	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 14:10	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 14:10	71-55-6	
Trichloroethene	1.1	ug/L	1.0	1		05/28/19 14:10	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 14:10	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-09B_5/22/19	Lab ID: 7090528004	Collected: 05/22/19 11:40	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 14:10	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 14:10	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 14:10	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	68-153	1		05/28/19 14:10	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-124	1		05/28/19 14:10	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/28/19 14:10	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	30.3	mg/L	1.0	1		05/31/19 19:04		
Alkalinity,Bicarbonate (CaCO3)	30.3	mg/L	1.0	1		05/31/19 19:04		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		05/31/19 19:04		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	46.7	mg/L	5.0	1		06/11/19 12:36		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	308	mg/L	20.0	1		05/29/19 10:00		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:12	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	20.7	mg/L	5.0	1		06/08/19 04:57	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	0.86	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:31	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	4.6	mg/L	0.50	10		05/23/19 01:36	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/22/19 23:34	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:33	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	76.9	mg/L	10.0	5		06/07/19 12:18	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	1.7	mg/L	0.10	1		06/10/19 14:46	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-09B_5/22/19 DISS      Lab ID: 7090528005      Collected: 05/22/19 11:40      Received: 05/22/19 18:30      Matrix: Water</b>								
<b>200.7 Metals, Dissolved</b> Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 14:55	7429-90-5	
Barium, Dissolved	77.2J	ug/L	200	1		06/11/19 14:55	7440-39-3	
Calcium, Dissolved	11700	ug/L	1000	1		06/11/19 14:55	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 14:55	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 14:55	7440-50-8	
Iron, Dissolved	12.9J	ug/L	20.0	1		06/11/19 14:55	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 14:55	7439-92-1	
Magnesium, Dissolved	5040	ug/L	1000	1		06/11/19 14:55	7439-95-4	
Manganese, Dissolved	2440	ug/L	10.0	1		06/11/19 14:55	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		06/11/19 14:55	7440-02-0	
Potassium, Dissolved	8500	ug/L	5000	1		06/11/19 14:55	7440-09-7	
Sodium, Dissolved	52300	ug/L	5000	1		06/11/19 14:55	7440-23-5	
Zinc, Dissolved	10.5J	ug/L	20.0	1		06/11/19 14:55	7440-66-6	
<b>245.1 Mercury, Dissolved</b> Analytical Method: 245.1 Rev. 3.0, 1994      Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	0.050J	ug/L	0.20	1	06/13/19 11:16	06/13/19 17:52	7439-97-6	
<b>Chromium, Hexavalent</b> Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:14	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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



### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-09C_5/22/19	Lab ID: 7090528006	Collected: 05/22/19 11:45	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 12:57	7429-90-5	
Barium	53.7J	ug/L	200	1	06/04/19 09:09	06/11/19 12:57	7440-39-3	
Calcium	7910	ug/L	200	1	06/04/19 09:09	06/11/19 12:57	7440-70-2	
Chromium	5.1J	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:57	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 12:57	7440-50-8	
Iron	35.7J	ug/L	100	1	06/04/19 09:09	06/11/19 12:57	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 12:57	7439-92-1	
Magnesium	8750	ug/L	200	1	06/04/19 09:09	06/11/19 12:57	7439-95-4	
Manganese	156	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:57	7439-96-5	
Nickel	6.6J	ug/L	40.0	1	06/04/19 09:09	06/11/19 12:57	7440-02-0	
Potassium	12000	ug/L	5000	1	06/04/19 09:09	06/11/19 12:57	7440-09-7	
Sodium	65100	ug/L	5000	1	06/04/19 09:09	06/11/19 12:57	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 12:57	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:00	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 14:41	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 14:41	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 14:41	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 14:41	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 14:41	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 14:41	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 14:41	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 14:41	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 14:41	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 14:41	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 14:41	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 14:41	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 14:41	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 14:41	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 14:41	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 14:41	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 14:41	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 14:41	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 14:41	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 14:41	71-55-6	
Trichloroethene	3.2	ug/L	1.0	1		05/28/19 14:41	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 14:41	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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



## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-09C_5/22/19	Lab ID: 7090528006	Collected: 05/22/19 11:45	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 14:41	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 14:41	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 14:41	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		05/28/19 14:41	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		05/28/19 14:41	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/28/19 14:41	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	38.9	mg/L	1.0	1		05/31/19 19:11		
Alkalinity,Bicarbonate (CaCO3)	38.9	mg/L	1.0	1		05/31/19 19:11		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		05/31/19 19:11		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	43.3	mg/L	5.0	1		06/11/19 12:38		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	310	mg/L	20.0	1		05/29/19 10:02		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:16	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	21.4	mg/L	5.0	1		06/08/19 05:14	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	2.0	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:32	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	2.3	mg/L	0.50	10		05/23/19 01:37	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/22/19 23:36	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:35	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	102	mg/L	10.0	5		06/07/19 12:19	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	2.2	mg/L	0.10	1		06/10/19 14:47	7664-41-7	M1

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-09C_5/22/19 DISS      Lab ID: 7090528007      Collected: 05/22/19 11:45      Received: 05/22/19 18:30      Matrix: Water</b>								
<b>200.7 Metals, Dissolved</b> Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 14:58	7429-90-5	
Barium, Dissolved	51.8J	ug/L	200	1		06/11/19 14:58	7440-39-3	
Calcium, Dissolved	7660	ug/L	1000	1		06/11/19 14:58	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 14:58	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 14:58	7440-50-8	
Iron, Dissolved	<20.0	ug/L	20.0	1		06/11/19 14:58	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 14:58	7439-92-1	
Magnesium, Dissolved	8480	ug/L	1000	1		06/11/19 14:58	7439-95-4	
Manganese, Dissolved	140	ug/L	10.0	1		06/11/19 14:58	7439-96-5	
Nickel, Dissolved	4.9J	ug/L	40.0	1		06/11/19 14:58	7440-02-0	
Potassium, Dissolved	11500	ug/L	5000	1		06/11/19 14:58	7440-09-7	
Sodium, Dissolved	62900	ug/L	5000	1		06/11/19 14:58	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 14:58	7440-66-6	
<b>245.1 Mercury, Dissolved</b> Analytical Method: 245.1 Rev. 3.0, 1994      Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	0.060J	ug/L	0.20	1	06/13/19 11:16	06/13/19 17:53	7439-97-6	
<b>Chromium, Hexavalent</b> Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:16	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: **BLIND DUPLICATE\_5/22/19** Lab ID: **7090528008** Collected: 05/22/19 00:00 Received: 05/22/19 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 12:59	7429-90-5	
Barium	38.0J	ug/L	200	1	06/04/19 09:09	06/11/19 12:59	7440-39-3	
Calcium	13000	ug/L	200	1	06/04/19 09:09	06/11/19 12:59	7440-70-2	
Chromium	3.1J	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:59	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 12:59	7440-50-8	
Iron	26.9J	ug/L	100	1	06/04/19 09:09	06/11/19 12:59	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 12:59	7439-92-1	
Magnesium	5770	ug/L	200	1	06/04/19 09:09	06/11/19 12:59	7439-95-4	
Manganese	3670	ug/L	10.0	1	06/04/19 09:09	06/11/19 12:59	7439-96-5	
Nickel	9.7J	ug/L	40.0	1	06/04/19 09:09	06/11/19 12:59	7440-02-0	
Potassium	11300	ug/L	5000	1	06/04/19 09:09	06/11/19 12:59	7440-09-7	
Sodium	62600	ug/L	5000	1	06/04/19 09:09	06/11/19 12:59	7440-23-5	
Zinc	5.1J	ug/L	20.0	1	06/04/19 09:09	06/11/19 12:59	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:02	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 15:01	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 15:01	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 15:01	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 15:01	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 15:01	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 15:01	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 15:01	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 15:01	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:01	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:01	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:01	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:01	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:01	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 15:01	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:01	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 15:01	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 15:01	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 15:01	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 15:01	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:01	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:01	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 15:01	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: BLIND DUPLICATE_5/22/19	Lab ID: 7090528008	Collected: 05/22/19 00:00	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 15:01	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 15:01	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 15:01	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	68-153	1		05/28/19 15:01	17060-07-0	
4-Bromofluorobenzene (S)	87	%	79-124	1		05/28/19 15:01	460-00-4	
Toluene-d8 (S)	85	%	69-124	1		05/28/19 15:01	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	29.6	mg/L	1.0	1		05/31/19 19:17		
Alkalinity,Bicarbonate (CaCO3)	29.6	mg/L	1.0	1		05/31/19 19:17		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		05/31/19 19:17		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	53.3	mg/L	5.0	1		06/11/19 12:48		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	340	mg/L	20.0	1		05/29/19 10:02		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:09	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	24.5	mg/L	5.0	1		06/08/19 06:37	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	0.23	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:33	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	4.8	mg/L	0.50	10		05/23/19 01:38	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	0.13	mg/L	0.050	1		05/22/19 23:37	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	3.5J	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:36	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	97.2	mg/L	10.0	5		06/07/19 12:19	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	0.055J	mg/L	0.10	1		06/10/19 14:50	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

**Sample:** BLIND DUPLICATE\_5/22/19 **Lab ID:** 7090528009 Collected: 05/22/19 00:00 Received: 05/22/19 18:30 Matrix: Water  
**DISS**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7						
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:02	7429-90-5	
Barium, Dissolved	36.3J	ug/L	200	1		06/11/19 15:02	7440-39-3	
Calcium, Dissolved	12700	ug/L	1000	1		06/11/19 15:02	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:02	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:02	7440-50-8	
Iron, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:02	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:02	7439-92-1	
Magnesium, Dissolved	5650	ug/L	1000	1		06/11/19 15:02	7439-95-4	
Manganese, Dissolved	3510	ug/L	10.0	1		06/11/19 15:02	7439-96-5	
Nickel, Dissolved	6.6J	ug/L	40.0	1		06/11/19 15:02	7440-02-0	
Potassium, Dissolved	10800	ug/L	5000	1		06/11/19 15:02	7440-09-7	
Sodium, Dissolved	61000	ug/L	5000	1		06/11/19 15:02	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:02	7440-66-6	
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994						
Mercury, Dissolved	0.060J	ug/L	0.20	1	06/13/19 11:16	06/13/19 17:55	7439-97-6	
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:10	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-05B_5/22/19	Lab ID: 7090528010	Collected: 05/22/19 14:00	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:01	7429-90-5	
Barium	38.0J	ug/L	200	1	06/04/19 09:09	06/11/19 13:01	7440-39-3	
Calcium	13000	ug/L	200	1	06/04/19 09:09	06/11/19 13:01	7440-70-2	
Chromium	3.0J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:01	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:01	7440-50-8	
Iron	25.4J	ug/L	100	1	06/04/19 09:09	06/11/19 13:01	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:01	7439-92-1	
Magnesium	5810	ug/L	200	1	06/04/19 09:09	06/11/19 13:01	7439-95-4	
Manganese	3690	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:01	7439-96-5	
Nickel	9.7J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:01	7440-02-0	
Potassium	11300	ug/L	5000	1	06/04/19 09:09	06/11/19 13:01	7440-09-7	
Sodium	62900	ug/L	5000	1	06/04/19 09:09	06/11/19 13:01	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:01	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:04	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 15:27	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 15:27	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 15:27	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 15:27	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 15:27	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 15:27	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 15:27	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 15:27	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:27	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:27	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:27	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:27	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:27	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 15:27	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:27	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 15:27	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 15:27	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 15:27	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 15:27	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:27	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:27	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 15:27	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-05B_5/22/19	Lab ID: 7090528010	Collected: 05/22/19 14:00	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 15:27	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 15:27	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 15:27	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	68-153	1		05/28/19 15:27	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/28/19 15:27	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/28/19 15:27	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	30.3	mg/L	1.0	1		06/03/19 18:49		
Alkalinity,Bicarbonate (CaCO3)	30.3	mg/L	1.0	1		06/03/19 18:49		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/03/19 18:49		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	53.3	mg/L	5.0	1		06/11/19 12:50		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	362	mg/L	20.0	1		05/29/19 10:02		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:19	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	24.3	mg/L	5.0	1		06/08/19 06:54	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:34	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	4.7	mg/L	0.50	10		05/23/19 01:39	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	0.13	mg/L	0.050	1		05/22/19 23:38	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:38	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	94.8	mg/L	10.0	5		06/07/19 12:22	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		06/10/19 14:54	7664-41-7	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-05B_5/22/19 DISS		Lab ID: 7090528011		Collected: 05/22/19 14:00		Received: 05/22/19 18:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7							
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:03	7429-90-5		
Barium, Dissolved	36.9J	ug/L	200	1		06/11/19 15:03	7440-39-3		
Calcium, Dissolved	12700	ug/L	1000	1		06/11/19 15:03	7440-70-2		
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:03	7440-47-3		
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:03	7440-50-8		
Iron, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:03	7439-89-6		
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:03	7439-92-1		
Magnesium, Dissolved	5660	ug/L	1000	1		06/11/19 15:03	7439-95-4		
Manganese, Dissolved	3530	ug/L	10.0	1		06/11/19 15:03	7439-96-5		
Nickel, Dissolved	6.9J	ug/L	40.0	1		06/11/19 15:03	7440-02-0		
Potassium, Dissolved	10800	ug/L	5000	1		06/11/19 15:03	7440-09-7		
Sodium, Dissolved	61200	ug/L	5000	1		06/11/19 15:03	7440-23-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:03	7440-66-6		
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994							
Mercury, Dissolved	0.070J	ug/L	0.20	1	06/13/19 11:16	06/13/19 17:57	7439-97-6		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:19	18540-29-9		

### REPORT OF LABORATORY ANALYSIS

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



### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-08B_5/22/19	Lab ID: 7090528012	Collected: 05/22/19 16:45	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:04	7429-90-5	
Barium	141J	ug/L	200	1	06/04/19 09:09	06/11/19 13:04	7440-39-3	
Calcium	23100	ug/L	200	1	06/04/19 09:09	06/11/19 13:04	7440-70-2	
Chromium	4.0J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:04	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:04	7440-50-8	
Iron	32.6J	ug/L	100	1	06/04/19 09:09	06/11/19 13:04	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:04	7439-92-1	
Magnesium	7890	ug/L	200	1	06/04/19 09:09	06/11/19 13:04	7439-95-4	
Manganese	1120	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:04	7439-96-5	
Nickel	27.9J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:04	7440-02-0	
Potassium	10800	ug/L	5000	1	06/04/19 09:09	06/11/19 13:04	7440-09-7	
Sodium	150000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:04	7440-23-5	
Zinc	66.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:04	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:05	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 15:48	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 15:48	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 15:48	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 15:48	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 15:48	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 15:48	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 15:48	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 15:48	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:48	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:48	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:48	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:48	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:48	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 15:48	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 15:48	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 15:48	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 15:48	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 15:48	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 15:48	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 15:48	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 15:48	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 15:48	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-08B_5/22/19	Lab ID: 7090528012	Collected: 05/22/19 16:45	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 15:48	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 15:48	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 15:48	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	68-153	1		05/28/19 15:48	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		05/28/19 15:48	460-00-4	
Toluene-d8 (S)	88	%	69-124	1		05/28/19 15:48	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	4.1	mg/L	1.0	1		06/03/19 18:53		
Alkalinity,Bicarbonate (CaCO3)	4.1	mg/L	1.0	1		06/03/19 18:53		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/03/19 18:53		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	85.0	mg/L	5.0	1		06/11/19 12:52		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	718	mg/L	20.0	1		05/29/19 10:03		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:20	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	31.6	mg/L	5.0	1		06/08/19 07:11	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	0.15	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:35	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	1.1	mg/L	0.050	1		05/23/19 01:40	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/22/19 23:39	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:39	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	294	mg/L	10.0	5		06/07/19 12:22	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	0.32	mg/L	0.10	1		06/10/19 14:55	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-08B_5/22/19 DISS      Lab ID: 7090528013      Collected: 05/22/19 16:45      Received: 05/22/19 18:30      Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7						
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:04	7429-90-5	
Barium, Dissolved	141J	ug/L	200	1		06/11/19 15:04	7440-39-3	
Calcium, Dissolved	23400	ug/L	1000	1		06/11/19 15:04	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:04	7440-47-3	
Copper, Dissolved	5.3J	ug/L	25.0	1		06/11/19 15:04	7440-50-8	
Iron, Dissolved	8.0J	ug/L	20.0	1		06/11/19 15:04	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:04	7439-92-1	
Magnesium, Dissolved	7980	ug/L	1000	1		06/11/19 15:04	7439-95-4	
Manganese, Dissolved	1110	ug/L	10.0	1		06/11/19 15:04	7439-96-5	
Nickel, Dissolved	25.5J	ug/L	40.0	1		06/11/19 15:04	7440-02-0	
Potassium, Dissolved	10600	ug/L	5000	1		06/11/19 15:04	7440-09-7	
Sodium, Dissolved	151000	ug/L	5000	1		06/11/19 15:04	7440-23-5	
Zinc, Dissolved	65.9	ug/L	20.0	1		06/11/19 15:04	7440-66-6	
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994      Preparation Method: 245.1 Rev. 3.0, 1994						
Mercury, Dissolved	0.13J	ug/L	0.20	1	06/13/19 11:16	06/13/19 17:58	7439-97-6	
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:20	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-08A_5/22/19      Lab ID: 7090528014      Collected: 05/22/19 18:00      Received: 05/22/19 18:30      Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b> Analytical Method: EPA 200.7      Preparation Method: EPA 200.7								
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:06	7429-90-5	
Barium	55.8J	ug/L	200	1	06/04/19 09:09	06/11/19 13:06	7440-39-3	
Calcium	12500	ug/L	200	1	06/04/19 09:09	06/11/19 13:06	7440-70-2	
Chromium	6.1J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:06	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:06	7440-50-8	
Iron	48.6J	ug/L	100	1	06/04/19 09:09	06/11/19 13:06	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:06	7439-92-1	
Magnesium	5110	ug/L	200	1	06/04/19 09:09	06/11/19 13:06	7439-95-4	
Manganese	75.1	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:06	7439-96-5	
Nickel	9.3J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:06	7440-02-0	
Potassium	6420	ug/L	5000	1	06/04/19 09:09	06/11/19 13:06	7440-09-7	
Sodium	41700	ug/L	5000	1	06/04/19 09:09	06/11/19 13:06	7440-23-5	
Zinc	17.7J	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:06	7440-66-6	
<b>245.1 Mercury</b> Analytical Method: EPA 245.1      Preparation Method: EPA 245.1								
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:07	7439-97-6	
<b>8260C Volatile Organics</b> Analytical Method: EPA 8260C/5030C								
Benzene	<1.0	ug/L	1.0	1		05/28/19 16:18	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 16:18	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 16:18	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 16:18	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 16:18	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 16:18	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 16:18	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 16:18	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 16:18	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 16:18	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 16:18	75-35-4	
cis-1,2-Dichloroethene	10.0	ug/L	1.0	1		05/28/19 16:18	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 16:18	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 16:18	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 16:18	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 16:18	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 16:18	75-09-2	
Tetrachloroethene	2.2	ug/L	1.0	1		05/28/19 16:18	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 16:18	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 16:18	71-55-6	
Trichloroethene	1.9	ug/L	1.0	1		05/28/19 16:18	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 16:18	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: MW-08A_5/22/19	Lab ID: 7090528014	Collected: 05/22/19 18:00	Received: 05/22/19 18:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 16:18	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 16:18	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 16:18	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	68-153	1		05/28/19 16:18	17060-07-0	
4-Bromofluorobenzene (S)	89	%	79-124	1		05/28/19 16:18	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		05/28/19 16:18	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	21.6	mg/L	1.0	1		06/03/19 18:59		
Alkalinity,Bicarbonate (CaCO3)	21.6	mg/L	1.0	1		06/03/19 18:59		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/03/19 18:59		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	40.0	mg/L	5.0	1		06/11/19 13:00		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	179	mg/L	10.0	1		05/29/19 10:14		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:21	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	27.9	mg/L	5.0	1		06/08/19 07:28	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	0.18	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:36	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	2.3	mg/L	0.50	10		05/23/19 01:42	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/22/19 23:40	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/30/19 07:59	05/30/19 13:40	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	47.4	mg/L	10.0	5		06/07/19 12:24	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	0.72	mg/L	0.10	1		06/10/19 14:56	7664-41-7	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-08A_5/22/19 DISS</b>								
<b>Lab ID: 7090528015</b>								
Collected: 05/22/19 18:00 Received: 05/22/19 18:30 Matrix: Water								
<b>200.7 Metals, Dissolved</b>								
Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:05	7429-90-5	
Barium, Dissolved	55.7J	ug/L	200	1		06/11/19 15:05	7440-39-3	
Calcium, Dissolved	12600	ug/L	1000	1		06/11/19 15:05	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:05	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:05	7440-50-8	
Iron, Dissolved	6.0J	ug/L	20.0	1		06/11/19 15:05	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:05	7439-92-1	
Magnesium, Dissolved	5210	ug/L	1000	1		06/11/19 15:05	7439-95-4	
Manganese, Dissolved	66.4	ug/L	10.0	1		06/11/19 15:05	7439-96-5	
Nickel, Dissolved	6.0J	ug/L	40.0	1		06/11/19 15:05	7440-02-0	
Potassium, Dissolved	6290	ug/L	5000	1		06/11/19 15:05	7440-09-7	
Sodium, Dissolved	42000	ug/L	5000	1		06/11/19 15:05	7440-23-5	
Zinc, Dissolved	16.9J	ug/L	20.0	1		06/11/19 15:05	7440-66-6	
<b>245.1 Mercury, Dissolved</b>								
Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	0.070J	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:04	7439-97-6	
<b>Chromium, Hexavalent</b>								
Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/22/19 22:21	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: TRIP BLANK_5/23/19	Lab ID: 7090528016	Collected: 05/23/19 00:00	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 16:39	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 16:39	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 16:39	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 16:39	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 16:39	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 16:39	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 16:39	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 16:39	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 16:39	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 16:39	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 16:39	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 16:39	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 16:39	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 16:39	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 16:39	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 16:39	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 16:39	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 16:39	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 16:39	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 16:39	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 16:39	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 16:39	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 16:39	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 16:39	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 16:39	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		05/28/19 16:39	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-124	1		05/28/19 16:39	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		05/28/19 16:39	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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



### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: LF-2_5/23/19		Lab ID: 7090528017		Collected: 05/23/19 10:15		Received: 05/23/19 18:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:08	7429-90-5		
Barium	47.0J	ug/L	200	1	06/04/19 09:09	06/11/19 13:08	7440-39-3		
Calcium	29800	ug/L	200	1	06/04/19 09:09	06/11/19 13:08	7440-70-2		
Chromium	13.8	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:08	7440-47-3		
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:08	7440-50-8		
Iron	7280	ug/L	100	1	06/04/19 09:09	06/11/19 13:08	7439-89-6		
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:08	7439-92-1		
Magnesium	20400	ug/L	200	1	06/04/19 09:09	06/11/19 13:08	7439-95-4		
Manganese	162	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:08	7439-96-5		
Nickel	18.9J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:08	7440-02-0		
Potassium	132000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:08	7440-09-7		
Sodium	420000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:08	7440-23-5		
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:08	7440-66-6		
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:09	7439-97-6		
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C							
Benzene	2.3	ug/L	1.0	1		05/28/19 17:02	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 17:02	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		05/28/19 17:02	75-25-2	CL,L2	
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:02	104-51-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:02	98-06-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 17:02	56-23-5		
Chlorobenzene	1.2	ug/L	1.0	1		05/28/19 17:02	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 17:02	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		05/28/19 17:02	67-66-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 17:02	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:02	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:02	541-73-1		
1,4-Dichlorobenzene	1.6	ug/L	1.0	1		05/28/19 17:02	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 17:02	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:02	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:02	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:02	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:02	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:02	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 17:02	78-87-5		
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:02	100-41-4		
Isopropylbenzene (Cumene)	5.0	ug/L	1.0	1		05/28/19 17:02	98-82-8		
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 17:02	75-09-2		
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 17:02	127-18-4	CL	
Toluene	<1.0	ug/L	1.0	1		05/28/19 17:02	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:02	71-55-6		
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:02	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 17:02	75-01-4		

### REPORT OF LABORATORY ANALYSIS

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



## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: LF-2_5/23/19	Lab ID: 7090528017	Collected: 05/23/19 10:15	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 17:02	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 17:02	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 17:02	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		05/28/19 17:02	17060-07-0	
4-Bromofluorobenzene (S)	87	%	79-124	1		05/28/19 17:02	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/28/19 17:02	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	1230	mg/L	5.0	1		06/05/19 10:17		
Alkalinity,Bicarbonate (CaCO3)	1230	mg/L	5.0	1		06/05/19 10:17		
Alkalinity,Carbonate (CaCO3)	1230	mg/L	5.0	1		06/05/19 10:17		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	100	mg/L	5.0	1		06/11/19 13:28		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	1690	mg/L	40.0	1		05/29/19 10:30		M1
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:09	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	<5.0	mg/L	5.0	1		06/08/19 07:44	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	131	mg/L	5.0	10	06/07/19 05:57	06/07/19 13:16	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		05/24/19 10:39	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/24/19 08:53	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:08	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	383	mg/L	10.0	5		06/07/19 12:25	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	145	mg/L	5.0	50		06/10/19 16:02	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

<b>Sample: LF-2_5/23/19 DISS</b>		<b>Lab ID: 7090528018</b>	Collected: 05/23/19 10:15	Received: 05/23/19 18:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7						
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:06	7429-90-5	
Barium, Dissolved	45.8J	ug/L	200	1		06/11/19 15:06	7440-39-3	
Calcium, Dissolved	29100	ug/L	1000	1		06/11/19 15:06	7440-70-2	
Chromium, Dissolved	5.8J	ug/L	10.0	1		06/11/19 15:06	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:06	7440-50-8	
Iron, Dissolved	7180	ug/L	20.0	1		06/11/19 15:06	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:06	7439-92-1	
Magnesium, Dissolved	19500	ug/L	1000	1		06/11/19 15:06	7439-95-4	
Manganese, Dissolved	151	ug/L	10.0	1		06/11/19 15:06	7439-96-5	
Nickel, Dissolved	15.2J	ug/L	40.0	1		06/11/19 15:06	7440-02-0	
Potassium, Dissolved	128000	ug/L	5000	1		06/11/19 15:06	7440-09-7	
Sodium, Dissolved	411000	ug/L	5000	1		06/11/19 15:06	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:06	7440-66-6	
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994						
Mercury, Dissolved	0.030J	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:06	7439-97-6	
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:09	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06F_5/23/19	Lab ID: 7090528019	Collected: 05/23/19 13:15	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	155J	ug/L	200	1	06/04/19 09:09	06/11/19 13:15	7429-90-5	
Barium	212	ug/L	200	1	06/04/19 09:09	06/11/19 13:15	7440-39-3	
Calcium	36900	ug/L	200	1	06/04/19 09:09	06/11/19 13:15	7440-70-2	
Chromium	4.0J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:15	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:15	7440-50-8	
Iron	137	ug/L	100	1	06/04/19 09:09	06/11/19 13:15	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:15	7439-92-1	
Magnesium	14500	ug/L	200	1	06/04/19 09:09	06/11/19 13:15	7439-95-4	
Manganese	119	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:15	7439-96-5	
Nickel	28.9J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:15	7440-02-0	
Potassium	8570	ug/L	5000	1	06/04/19 09:09	06/11/19 13:15	7440-09-7	
Sodium	127000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:15	7440-23-5	
Zinc	29.3	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:15	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.21	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:14	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 17:23	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 17:23	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 17:23	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 17:23	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 17:23	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 17:23	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 17:23	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 17:23	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:23	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:23	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:23	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:23	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:23	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 17:23	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:23	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 17:23	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 17:23	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 17:23	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 17:23	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:23	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:23	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 17:23	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: MW-06F_5/23/19	Lab ID: 7090528019	Collected: 05/23/19 13:15	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 17:23	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 17:23	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 17:23	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		05/28/19 17:23	17060-07-0	
4-Bromofluorobenzene (S)	89	%	79-124	1		05/28/19 17:23	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		05/28/19 17:23	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		06/03/19 23:23		
Alkalinity,Bicarbonate (CaCO3)	<1.0	mg/L	1.0	1		06/03/19 23:23		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/03/19 23:23		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	120	mg/L	5.0	1		06/11/19 13:07		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	666	mg/L	20.0	1		05/30/19 09:20		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 09:09	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	<5.0	mg/L	5.0	1		06/08/19 08:01	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	0.58	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:39	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	3.6	mg/L	0.50	10		05/24/19 10:41	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/24/19 08:57	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:08	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	374	mg/L	10.0	5		06/07/19 12:26	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	3.3	mg/L	0.10	1		06/10/19 14:59	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

<b>Sample: MW-06F_5/23/19 DISS</b>		<b>Lab ID: 7090528020</b>	Collected: 05/23/19 13:15	Received: 05/23/19 18:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7						
Aluminum, Dissolved	<b>139J</b>	ug/L	200	1		06/11/19 15:07	7429-90-5	
Barium, Dissolved	<b>203</b>	ug/L	200	1		06/11/19 15:07	7440-39-3	
Calcium, Dissolved	<b>35400</b>	ug/L	1000	1		06/11/19 15:07	7440-70-2	
Chromium, Dissolved	<b>&lt;10.0</b>	ug/L	10.0	1		06/11/19 15:07	7440-47-3	
Copper, Dissolved	<b>&lt;25.0</b>	ug/L	25.0	1		06/11/19 15:07	7440-50-8	
Iron, Dissolved	<b>99.6</b>	ug/L	20.0	1		06/11/19 15:07	7439-89-6	
Lead, Dissolved	<b>&lt;5.0</b>	ug/L	5.0	1		06/11/19 15:07	7439-92-1	
Magnesium, Dissolved	<b>13900</b>	ug/L	1000	1		06/11/19 15:07	7439-95-4	
Manganese, Dissolved	<b>107</b>	ug/L	10.0	1		06/11/19 15:07	7439-96-5	
Nickel, Dissolved	<b>25.9J</b>	ug/L	40.0	1		06/11/19 15:07	7440-02-0	
Potassium, Dissolved	<b>8400</b>	ug/L	5000	1		06/11/19 15:07	7440-09-7	
Sodium, Dissolved	<b>123000</b>	ug/L	5000	1		06/11/19 15:07	7440-23-5	
Zinc, Dissolved	<b>27.1</b>	ug/L	20.0	1		06/11/19 15:07	7440-66-6	
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994						
Mercury, Dissolved	<b>0.10J</b>	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:08	7439-97-6	
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<b>&lt;0.020</b>	mg/L	0.020	1		05/24/19 09:09	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06C_5/23/19	Lab ID: 7090528021	Collected: 05/23/19 13:25	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:18	7429-90-5	
Barium	46.7J	ug/L	200	1	06/04/19 09:09	06/11/19 13:18	7440-39-3	
Calcium	52700	ug/L	200	1	06/04/19 09:09	06/11/19 13:18	7440-70-2	
Chromium	3.8J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:18	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:18	7440-50-8	
Iron	6700	ug/L	100	1	06/04/19 09:09	06/11/19 13:18	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:18	7439-92-1	
Magnesium	21000	ug/L	200	1	06/04/19 09:09	06/11/19 13:18	7439-95-4	
Manganese	131	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:18	7439-96-5	
Nickel	23.0J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:18	7440-02-0	
Potassium	139000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:18	7440-09-7	
Sodium	429000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:18	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:18	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:16	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	0.92J	ug/L	1.0	1		05/28/19 17:43	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 17:43	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 17:43	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:43	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:43	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 17:43	56-23-5	
Chlorobenzene	2.3	ug/L	1.0	1		05/28/19 17:43	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 17:43	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 17:43	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 17:43	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:43	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 17:43	541-73-1	
1,4-Dichlorobenzene	1.3	ug/L	1.0	1		05/28/19 17:43	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 17:43	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:43	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:43	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:43	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:43	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:43	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 17:43	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 17:43	100-41-4	
Isopropylbenzene (Cumene)	1.4	ug/L	1.0	1		05/28/19 17:43	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 17:43	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 17:43	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 17:43	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 17:43	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 17:43	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 17:43	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: MW-06C_5/23/19	Lab ID: 7090528021	Collected: 05/23/19 13:25	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 17:43	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 17:43	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 17:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/28/19 17:43	17060-07-0	
4-Bromofluorobenzene (S)	87	%	79-124	1		05/28/19 17:43	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		05/28/19 17:43	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	620	mg/L	1.0	1		06/03/19 23:57		
Alkalinity,Bicarbonate (CaCO3)	620	mg/L	1.0	1		06/03/19 23:57		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/03/19 23:57		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	70.0	mg/L	5.0	1		06/11/19 13:31		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	896	mg/L	20.0	1		05/30/19 09:22		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:09	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	4.7J	mg/L	5.0	1		06/08/19 08:18	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	128	mg/L	10.0	100	06/07/19 05:57	06/07/19 13:25	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		05/24/19 10:42	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/24/19 08:58	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	3.6J	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:10	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	228	mg/L	10.0	5		06/07/19 12:26	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	66.5	mg/L	2.0	20		06/10/19 15:59	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-06C_5/23/19 DISS</b>		<b>Lab ID: 7090528022</b>		Collected: 05/23/19 13:25	Received: 05/23/19 18:45	Matrix: Water		
<b>200.7 Metals, Dissolved</b> Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:09	7429-90-5	
Barium, Dissolved	21.6J	ug/L	200	1		06/11/19 15:09	7440-39-3	
Calcium, Dissolved	24500	ug/L	1000	1		06/11/19 15:09	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:09	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:09	7440-50-8	
Iron, Dissolved	3070	ug/L	20.0	1		06/11/19 15:09	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:09	7439-92-1	
Magnesium, Dissolved	9730	ug/L	1000	1		06/11/19 15:09	7439-95-4	
Manganese, Dissolved	61.3	ug/L	10.0	1		06/11/19 15:09	7439-96-5	
Nickel, Dissolved	9.6J	ug/L	40.0	1		06/11/19 15:09	7440-02-0	
Potassium, Dissolved	63000	ug/L	5000	1		06/11/19 15:09	7440-09-7	
Sodium, Dissolved	207000	ug/L	5000	1		06/11/19 15:09	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:09	7440-66-6	
<b>245.1 Mercury, Dissolved</b> Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	0.030J	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:09	7439-97-6	
<b>Chromium, Hexavalent</b> Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:09	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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



## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06B_5/23/19	Lab ID: 7090528023	Collected: 05/23/19 16:00	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:20	7429-90-5	
Barium	53.3J	ug/L	200	1	06/04/19 09:09	06/11/19 13:20	7440-39-3	
Calcium	18000	ug/L	200	1	06/04/19 09:09	06/11/19 13:20	7440-70-2	
Chromium	7.7J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:20	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:20	7440-50-8	
Iron	10800	ug/L	100	1	06/04/19 09:09	06/11/19 13:20	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:20	7439-92-1	
Magnesium	14500	ug/L	200	1	06/04/19 09:09	06/11/19 13:20	7439-95-4	
Manganese	53.3	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:20	7439-96-5	
Nickel	11.9J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:20	7440-02-0	
Potassium	92200	ug/L	5000	1	06/04/19 09:09	06/11/19 13:20	7440-09-7	
Sodium	217000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:20	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:20	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:18	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	2.1	ug/L	1.0	1		05/28/19 18:04	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 18:04	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 18:04	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:04	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:04	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 18:04	56-23-5	
Chlorobenzene	5.4	ug/L	1.0	1		05/28/19 18:04	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 18:04	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 18:04	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 18:04	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:04	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:04	541-73-1	
1,4-Dichlorobenzene	2.4	ug/L	1.0	1		05/28/19 18:04	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 18:04	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:04	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:04	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:04	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:04	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:04	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 18:04	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:04	100-41-4	
Isopropylbenzene (Cumene)	2.7	ug/L	1.0	1		05/28/19 18:04	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 18:04	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 18:04	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 18:04	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:04	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:04	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 18:04	75-01-4	

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06B_5/23/19	Lab ID: 7090528023	Collected: 05/23/19 16:00	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 18:04	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 18:04	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 18:04	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		05/28/19 18:04	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-124	1		05/28/19 18:04	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		05/28/19 18:04	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	808	mg/L	1.0	1		06/04/19 00:27		
Alkalinity,Bicarbonate (CaCO3)	808	mg/L	1.0	1		06/04/19 00:27		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/04/19 00:27		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	80.0	mg/L	5.0	1		06/11/19 13:34		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	996	mg/L	20.0	1		05/30/19 09:41		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:09	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	<5.0	mg/L	5.0	1		06/08/19 08:35	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	137	mg/L	10.0	100	06/07/19 05:57	06/07/19 13:26	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		05/24/19 10:43	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/24/19 08:59	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	3.6J	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:11	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	231	mg/L	10.0	5		06/07/19 12:27	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	96.5	mg/L	2.0	20		06/10/19 16:13	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

<b>Sample: MW-06B_5/23/19 DISS</b>		<b>Lab ID: 7090528024</b>		Collected: 05/23/19 16:00	Received: 05/23/19 18:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7						
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:10	7429-90-5	
Barium, Dissolved	50.9J	ug/L	200	1		06/11/19 15:10	7440-39-3	
Calcium, Dissolved	17200	ug/L	1000	1		06/11/19 15:10	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:10	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:10	7440-50-8	
Iron, Dissolved	9570	ug/L	20.0	1		06/11/19 15:10	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:10	7439-92-1	
Magnesium, Dissolved	13600	ug/L	1000	1		06/11/19 15:10	7439-95-4	
Manganese, Dissolved	47.2	ug/L	10.0	1		06/11/19 15:10	7439-96-5	
Nickel, Dissolved	7.2J	ug/L	40.0	1		06/11/19 15:10	7440-02-0	
Potassium, Dissolved	87000	ug/L	5000	1		06/11/19 15:10	7440-09-7	
Sodium, Dissolved	207000	ug/L	5000	1		06/11/19 15:10	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:10	7440-66-6	
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994						
Mercury, Dissolved	0.040J	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:11	7439-97-6	
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:09	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06E_5/23/19		Lab ID: 7090528025		Collected: 05/23/19 16:55		Received: 05/23/19 18:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:22	7429-90-5		
Barium	212	ug/L	200	1	06/04/19 09:09	06/11/19 13:22	7440-39-3		
Calcium	33300	ug/L	200	1	06/04/19 09:09	06/11/19 13:22	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:22	7440-47-3		
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:22	7440-50-8		
Iron	16200	ug/L	100	1	06/04/19 09:09	06/11/19 13:22	7439-89-6		
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:22	7439-92-1		
Magnesium	15500	ug/L	200	1	06/04/19 09:09	06/11/19 13:22	7439-95-4		
Manganese	479	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:22	7439-96-5		
Nickel	15.2J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:22	7440-02-0		
Potassium	39200	ug/L	5000	1	06/04/19 09:09	06/11/19 13:22	7440-09-7		
Sodium	168000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:22	7440-23-5		
Zinc	16.4J	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:22	7440-66-6		
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:19	7439-97-6		
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C							
Benzene	<1.0	ug/L	1.0	1		05/28/19 18:22	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 18:22	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		05/28/19 18:22	75-25-2	CL,L2	
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:22	104-51-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:22	98-06-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 18:22	56-23-5		
Chlorobenzene	2.2	ug/L	1.0	1		05/28/19 18:22	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 18:22	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		05/28/19 18:22	67-66-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 18:22	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:22	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:22	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:22	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 18:22	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:22	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:22	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:22	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:22	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:22	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 18:22	78-87-5		
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:22	100-41-4		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 18:22	98-82-8		
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 18:22	75-09-2		
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 18:22	127-18-4	CL	
Toluene	<1.0	ug/L	1.0	1		05/28/19 18:22	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:22	71-55-6		
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:22	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 18:22	75-01-4		

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: MW-06E_5/23/19	Lab ID: 7090528025	Collected: 05/23/19 16:55	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 18:22	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 18:22	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 18:22	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		05/28/19 18:22	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-124	1		05/28/19 18:22	460-00-4	
Toluene-d8 (S)	87	%	69-124	1		05/28/19 18:22	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	217	mg/L	1.0	1		06/04/19 00:39		
Alkalinity,Bicarbonate (CaCO3)	217	mg/L	1.0	1		06/04/19 00:39		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/04/19 00:39		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	80.0	mg/L	5.0	1		06/11/19 13:48		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	1100	mg/L	20.0	1		05/30/19 09:41		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:10	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	24.7	mg/L	5.0	1		06/10/19 18:54	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	37.2	mg/L	2.0	20	06/07/19 05:57	06/07/19 13:20	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	2.3	mg/L	0.50	10		05/24/19 10:47	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/24/19 09:00	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	3.6J	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:13	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	325	mg/L	10.0	5		06/07/19 12:28	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	36.0	mg/L	1.0	10		06/10/19 16:07	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-06E_5/23/19 DISS</b>		<b>Lab ID: 7090528026</b>		Collected: 05/23/19 16:55	Received: 05/23/19 18:45	Matrix: Water		
<b>200.7 Metals, Dissolved</b> Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:11	7429-90-5	
Barium, Dissolved	210	ug/L	200	1		06/11/19 15:11	7440-39-3	
Calcium, Dissolved	33300	ug/L	1000	1		06/11/19 15:11	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:11	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:11	7440-50-8	
Iron, Dissolved	16000	ug/L	20.0	1		06/11/19 15:11	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:11	7439-92-1	
Magnesium, Dissolved	15400	ug/L	1000	1		06/11/19 15:11	7439-95-4	
Manganese, Dissolved	467	ug/L	10.0	1		06/11/19 15:11	7439-96-5	
Nickel, Dissolved	13.4J	ug/L	40.0	1		06/11/19 15:11	7440-02-0	
Potassium, Dissolved	38500	ug/L	5000	1		06/11/19 15:11	7440-09-7	
Sodium, Dissolved	166000	ug/L	5000	1		06/11/19 15:11	7440-23-5	
Zinc, Dissolved	15.1J	ug/L	20.0	1		06/11/19 15:11	7440-66-6	
<b>245.1 Mercury, Dissolved</b> Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	<0.20	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:16	7439-97-6	
<b>Chromium, Hexavalent</b> Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.10	mg/L	0.10	5		05/24/19 09:10	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06A_5/23/19	Lab ID: 7090528027	Collected: 05/23/19 18:00	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:25	7429-90-5	
Barium	50.1J	ug/L	200	1	06/04/19 09:09	06/11/19 13:25	7440-39-3	
Calcium	3130	ug/L	200	1	06/04/19 09:09	06/11/19 13:25	7440-70-2	
Chromium	3.7J	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:25	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:25	7440-50-8	
Iron	29.4J	ug/L	100	1	06/04/19 09:09	06/11/19 13:25	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:25	7439-92-1	
Magnesium	3110	ug/L	200	1	06/04/19 09:09	06/11/19 13:25	7439-95-4	
Manganese	21.4	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:25	7439-96-5	
Nickel	9.4J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:25	7440-02-0	
Potassium	3580J	ug/L	5000	1	06/04/19 09:09	06/11/19 13:25	7440-09-7	
Sodium	17600	ug/L	5000	1	06/04/19 09:09	06/11/19 13:25	7440-23-5	
Zinc	12.0J	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:25	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:21	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 18:43	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 18:43	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 18:43	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 18:43	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 18:43	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 18:43	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 18:43	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 18:43	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:43	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:43	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:43	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:43	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 18:43	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 18:43	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 18:43	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 18:43	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 18:43	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 18:43	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 18:43	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 18:43	71-55-6	
Trichloroethene	1.2	ug/L	1.0	1		05/28/19 18:43	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 18:43	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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



## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: MW-06A_5/23/19	Lab ID: 7090528027	Collected: 05/23/19 18:00	Received: 05/23/19 18:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 18:43	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 18:43	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 18:43	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	68-153	1		05/28/19 18:43	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		05/28/19 18:43	460-00-4	
Toluene-d8 (S)	87	%	69-124	1		05/28/19 18:43	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	2.5	mg/L	1.0	1		06/04/19 00:44		
Alkalinity,Bicarbonate (CaCO3)	2.5	mg/L	1.0	1		06/04/19 00:44		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/04/19 00:44		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	14.0	mg/L	5.0	1		06/11/19 13:51		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	224	mg/L	10.0	1		05/30/19 09:42		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 09:10	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	13.3	mg/L	5.0	1		06/10/19 19:11	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	0.77	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:43	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	1.5	mg/L	0.050	1		05/24/19 10:48	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/24/19 09:01	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:20	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	20.5	mg/L	10.0	5		06/07/19 12:30	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	1.1	mg/L	0.10	1		06/10/19 15:04	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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



### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: MW-06A_5/23/19 DISS		Lab ID: 7090528028		Collected: 05/23/19 18:00		Received: 05/23/19 18:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7							
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:12	7429-90-5		
Barium, Dissolved	46.7J	ug/L	200	1		06/11/19 15:12	7440-39-3		
Calcium, Dissolved	3000	ug/L	1000	1		06/11/19 15:12	7440-70-2		
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:12	7440-47-3		
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:12	7440-50-8		
Iron, Dissolved	13.2J	ug/L	20.0	1		06/11/19 15:12	7439-89-6		
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:12	7439-92-1		
Magnesium, Dissolved	2930	ug/L	1000	1		06/11/19 15:12	7439-95-4		
Manganese, Dissolved	17.4	ug/L	10.0	1		06/11/19 15:12	7439-96-5		
Nickel, Dissolved	7.5J	ug/L	40.0	1		06/11/19 15:12	7440-02-0		
Potassium, Dissolved	3200J	ug/L	5000	1		06/11/19 15:12	7440-09-7		
Sodium, Dissolved	16100	ug/L	5000	1		06/11/19 15:12	7440-23-5		
Zinc, Dissolved	8.7J	ug/L	20.0	1		06/11/19 15:12	7440-66-6		
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994							
Mercury, Dissolved	<0.20	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:18	7439-97-6		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 09:10	18540-29-9		

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: TRIP BLANK_5/24/19	Lab ID: 7090528029	Collected: 05/24/19 00:00	Received: 05/24/19 12:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 19:03	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 19:03	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 19:03	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 19:03	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 19:03	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 19:03	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 19:03	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 19:03	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 19:03	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 19:03	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:03	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:03	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:03	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 19:03	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 19:03	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 19:03	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 19:03	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 19:03	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 19:03	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 19:03	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:03	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 19:03	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 19:03	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 19:03	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 19:03	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		05/28/19 19:03	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-124	1		05/28/19 19:03	460-00-4	
Toluene-d8 (S)	87	%	69-124	1		05/28/19 19:03	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: LF-1_5/24/19	Lab ID: 7090528030	Collected: 05/24/19 11:40	Received: 05/24/19 12:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:27	7429-90-5	
Barium	71.2J	ug/L	200	1	06/04/19 09:09	06/11/19 13:27	7440-39-3	
Calcium	13100	ug/L	200	1	06/04/19 09:09	06/11/19 13:27	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:27	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:27	7440-50-8	
Iron	9520	ug/L	100	1	06/04/19 09:09	06/11/19 13:27	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:27	7439-92-1	
Magnesium	10100	ug/L	200	1	06/04/19 09:09	06/11/19 13:27	7439-95-4	
Manganese	1930	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:27	7439-96-5	
Nickel	8.1J	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:27	7440-02-0	
Potassium	16800	ug/L	5000	1	06/04/19 09:09	06/11/19 13:27	7440-09-7	
Sodium	59700	ug/L	5000	1	06/04/19 09:09	06/11/19 13:27	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:27	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:24	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/28/19 19:24	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/28/19 19:24	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/28/19 19:24	75-25-2	CL,L2
n-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/28/19 19:24	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/28/19 19:24	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/28/19 19:24	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/28/19 19:24	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/28/19 19:24	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 19:24	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/28/19 19:24	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:24	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:24	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:24	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/28/19 19:24	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/28/19 19:24	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/28/19 19:24	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/28/19 19:24	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/28/19 19:24	127-18-4	CL
Toluene	<1.0	ug/L	1.0	1		05/28/19 19:24	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/28/19 19:24	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/28/19 19:24	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/28/19 19:24	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: LF-1_5/24/19	Lab ID: 7090528030	Collected: 05/24/19 11:40	Received: 05/24/19 12:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/28/19 19:24	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/28/19 19:24	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/28/19 19:24	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	68-153	1		05/28/19 19:24	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-124	1		05/28/19 19:24	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/28/19 19:24	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	117	mg/L	1.0	1		06/06/19 17:51		
Alkalinity,Bicarbonate (CaCO3)	117	mg/L	1.0	1		06/06/19 17:51		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/06/19 17:51		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	25.0	mg/L	5.0	1		06/11/19 13:52		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	400	mg/L	20.0	1		05/30/19 10:17		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 23:24	18540-29-9	M1
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	36.6	mg/L	5.0	1		06/10/19 19:28	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	11.2	mg/L	0.50	5	06/07/19 05:57	06/07/19 13:21	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	0.47	mg/L	0.050	1		05/25/19 10:49	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/25/19 08:21	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:22	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	76.2	mg/L	10.0	5		06/07/19 12:31	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	11.7	mg/L	0.50	5		06/11/19 14:57	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: LF-1_5/24/19 DISS</b>								
<b>Lab ID: 7090528031</b>								
Collected: 05/24/19 11:40 Received: 05/24/19 12:59 Matrix: Water								
<b>200.7 Metals, Dissolved</b>								
Analytical Method: EPA 200.7								
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:16	7429-90-5	
Barium, Dissolved	69.0J	ug/L	200	1		06/11/19 15:16	7440-39-3	
Calcium, Dissolved	13000	ug/L	1000	1		06/11/19 15:16	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:16	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:16	7440-50-8	
Iron, Dissolved	8970	ug/L	20.0	1		06/11/19 15:16	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:16	7439-92-1	
Magnesium, Dissolved	9990	ug/L	1000	1		06/11/19 15:16	7439-95-4	
Manganese, Dissolved	1870	ug/L	10.0	1		06/11/19 15:16	7439-96-5	
Nickel, Dissolved	7.6J	ug/L	40.0	1		06/11/19 15:16	7440-02-0	
Potassium, Dissolved	16000	ug/L	5000	1		06/11/19 15:16	7440-09-7	
Sodium, Dissolved	58700	ug/L	5000	1		06/11/19 15:16	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:16	7440-66-6	
<b>245.1 Mercury, Dissolved</b>								
Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994								
Mercury, Dissolved	<0.20	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:19	7439-97-6	
<b>Chromium, Hexavalent</b>								
Analytical Method: SM22 3500-Cr B								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 23:29	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Sample: FIELD BLANK_5/24/19	Lab ID: 7090528032	Collected: 05/24/19 12:00	Received: 05/24/19 12:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	06/04/19 09:09	06/11/19 13:29	7429-90-5	
Barium	1.5J	ug/L	200	1	06/04/19 09:09	06/11/19 13:29	7440-39-3	
Calcium	89.3J	ug/L	200	1	06/04/19 09:09	06/11/19 13:29	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:29	7440-47-3	
Copper	<25.0	ug/L	25.0	1	06/04/19 09:09	06/11/19 13:29	7440-50-8	
Iron	14.2J	ug/L	100	1	06/04/19 09:09	06/11/19 13:29	7439-89-6	
Lead	<5.0	ug/L	5.0	1	06/04/19 09:09	06/11/19 13:29	7439-92-1	
Magnesium	18.9J	ug/L	200	1	06/04/19 09:09	06/11/19 13:29	7439-95-4	
Manganese	<10.0	ug/L	10.0	1	06/04/19 09:09	06/11/19 13:29	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	06/04/19 09:09	06/11/19 13:29	7440-02-0	
Potassium	<5000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:29	7440-09-7	
Sodium	<5000	ug/L	5000	1	06/04/19 09:09	06/11/19 13:29	7440-23-5	
Zinc	<20.0	ug/L	20.0	1	06/04/19 09:09	06/11/19 13:29	7440-66-6	
<b>245.1 Mercury</b>		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	<0.20	ug/L	0.20	1	05/31/19 14:00	06/04/19 11:26	7439-97-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Benzene	<1.0	ug/L	1.0	1		05/31/19 16:26	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/31/19 16:26	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/31/19 16:26	75-25-2	CL,L2, MO
n-Butylbenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/31/19 16:26	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/31/19 16:26	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/31/19 16:26	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/31/19 16:26	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		05/31/19 16:26	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/31/19 16:26	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/31/19 16:26	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/31/19 16:26	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/31/19 16:26	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		05/31/19 16:26	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/31/19 16:26	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		05/31/19 16:26	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		05/31/19 16:26	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		05/31/19 16:26	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		05/31/19 16:26	127-18-4	
Toluene	<1.0	ug/L	1.0	1		05/31/19 16:26	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/31/19 16:26	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		05/31/19 16:26	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/31/19 16:26	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Sample: FIELD BLANK_5/24/19	Lab ID: 7090528032	Collected: 05/24/19 12:00	Received: 05/24/19 12:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C						
Xylene (Total)	<3.0	ug/L	3.0	1		05/31/19 16:26	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		05/31/19 16:26	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		05/31/19 16:26	95-47-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/31/19 16:26	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/31/19 16:26	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/31/19 16:26	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B						
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		06/06/19 17:55		
Alkalinity,Bicarbonate (CaCO3)	<1.0	mg/L	1.0	1		06/06/19 17:55		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		06/06/19 17:55		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C						
Tot Hardness asCaCO3 (SM 2340B)	<5.0	mg/L	5.0	1		06/11/19 14:00		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C						
Total Dissolved Solids	51.0	mg/L	10.0	1		05/30/19 10:18		
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 23:29	18540-29-9	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0						
Sulfate	<5.0	mg/L	5.0	1		06/10/19 19:44	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	06/07/19 05:57	06/07/19 12:46	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		05/25/19 10:50	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2						
Nitrite as N	<0.050	mg/L	0.050	1		05/25/19 08:22	14797-65-0	
<b>SM 4500 CNE Cyanide, Total</b>		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C						
Cyanide	<10.0	ug/L	10.0	1	05/31/19 08:11	05/31/19 13:23	57-12-5	
<b>4500 Chloride</b>		Analytical Method: SM22 4500-Cl-E						
Chloride	<10.0	mg/L	10.0	5		06/07/19 12:31	16887-00-6	
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H						
Nitrogen, Ammonia	0.14	mg/L	0.10	1		06/10/19 15:08	7664-41-7	

## REPORT OF LABORATORY ANALYSIS

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

### ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

**Sample:** FIELD BLANK\_5/24/19 **Lab ID:** 7090528033 **Collected:** 05/24/19 12:00 **Received:** 05/24/19 12:59 **Matrix:** Water  
**DISS**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Dissolved</b>		Analytical Method: EPA 200.7						
Aluminum, Dissolved	<200	ug/L	200	1		06/11/19 15:17	7429-90-5	
Barium, Dissolved	<200	ug/L	200	1		06/11/19 15:17	7440-39-3	
Calcium, Dissolved	<1000	ug/L	1000	1		06/11/19 15:17	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:17	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		06/11/19 15:17	7440-50-8	
Iron, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:17	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		06/11/19 15:17	7439-92-1	
Magnesium, Dissolved	<1000	ug/L	1000	1		06/11/19 15:17	7439-95-4	
Manganese, Dissolved	<10.0	ug/L	10.0	1		06/11/19 15:17	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		06/11/19 15:17	7440-02-0	
Potassium, Dissolved	<5000	ug/L	5000	1		06/11/19 15:17	7440-09-7	
Sodium, Dissolved	<5000	ug/L	5000	1		06/11/19 15:17	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		06/11/19 15:17	7440-66-6	
<b>245.1 Mercury, Dissolved</b>		Analytical Method: 245.1 Rev. 3.0, 1994 Preparation Method: 245.1 Rev. 3.0, 1994						
Mercury, Dissolved	<0.20	ug/L	0.20	1	06/13/19 11:16	06/13/19 18:25	7439-97-6	
<b>Chromium, Hexavalent</b>		Analytical Method: SM22 3500-Cr B						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		05/24/19 23:30	18540-29-9	

### REPORT OF LABORATORY ANALYSIS

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 117214 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved  
Associated Lab Samples: 7090528003, 7090528005, 7090528007, 7090528009, 7090528011, 7090528013, 7090528015, 7090528018, 7090528020, 7090528022, 7090528024, 7090528026, 7090528028, 7090528031, 7090528033

METHOD BLANK: 554952 Matrix: Water  
Associated Lab Samples: 7090528003, 7090528005, 7090528007, 7090528009, 7090528011, 7090528013, 7090528015, 7090528018, 7090528020, 7090528022, 7090528024, 7090528026, 7090528028, 7090528031, 7090528033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	06/11/19 14:48	
Barium, Dissolved	ug/L	<200	200	06/11/19 14:48	
Calcium, Dissolved	ug/L	<1000	1000	06/11/19 14:48	
Chromium, Dissolved	ug/L	<10.0	10.0	06/11/19 14:48	
Copper, Dissolved	ug/L	<25.0	25.0	06/11/19 14:48	
Iron, Dissolved	ug/L	<20.0	20.0	06/11/19 14:48	
Lead, Dissolved	ug/L	<5.0	5.0	06/11/19 14:48	
Magnesium, Dissolved	ug/L	<1000	1000	06/11/19 14:48	
Manganese, Dissolved	ug/L	<10.0	10.0	06/11/19 14:48	
Nickel, Dissolved	ug/L	<40.0	40.0	06/11/19 14:48	
Potassium, Dissolved	ug/L	<5000	5000	06/11/19 14:48	
Sodium, Dissolved	ug/L	<5000	5000	06/11/19 14:48	
Zinc, Dissolved	ug/L	<20.0	20.0	06/11/19 14:48	

LABORATORY CONTROL SAMPLE: 554953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4960	99	85-115	
Barium, Dissolved	ug/L	500	489	98	85-115	
Calcium, Dissolved	ug/L	25000	25000	100	85-115	
Chromium, Dissolved	ug/L	250	244	98	85-115	
Copper, Dissolved	ug/L	250	243	97	85-115	
Iron, Dissolved	ug/L	2000	1990	100	85-115	
Lead, Dissolved	ug/L	500	500	100	85-115	
Magnesium, Dissolved	ug/L	25000	24800	99	85-115	
Manganese, Dissolved	ug/L	250	245	98	85-115	
Nickel, Dissolved	ug/L	250	248	99	85-115	
Potassium, Dissolved	ug/L	50000	48200	96	85-115	
Sodium, Dissolved	ug/L	50000	49100	98	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

MATRIX SPIKE SAMPLE: 554956

Parameter	Units	7090528003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	5050	101	70-130	
Barium, Dissolved	ug/L	49.3J	500	554	101	70-130	
Calcium, Dissolved	ug/L	16600	25000	41700	100	70-130	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

MATRIX SPIKE SAMPLE: 554956		7090528003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	250	248	99	70-130	
Copper, Dissolved	ug/L	<25.0	250	249	99	70-130	
Iron, Dissolved	ug/L	39.8	2000	2070	102	70-130	
Lead, Dissolved	ug/L	<5.0	500	441	88	70-130	
Magnesium, Dissolved	ug/L	13000	25000	38000	100	70-130	
Manganese, Dissolved	ug/L	2330	250	2540	84	70-130	
Nickel, Dissolved	ug/L	<40.0	250	256	101	70-130	
Potassium, Dissolved	ug/L	23600	50000	68900	91	70-130	
Sodium, Dissolved	ug/L	60500	50000	110000	99	70-130	
Zinc, Dissolved	ug/L	<20.0	1000	1020	102	70-130	

MATRIX SPIKE SAMPLE: 554958		7090528005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	5030	101	70-130	
Barium, Dissolved	ug/L	77.2J	500	578	100	70-130	
Calcium, Dissolved	ug/L	11700	25000	36900	101	70-130	
Chromium, Dissolved	ug/L	<10.0	250	248	99	70-130	
Copper, Dissolved	ug/L	<25.0	250	247	97	70-130	
Iron, Dissolved	ug/L	12.9J	2000	2030	101	70-130	
Lead, Dissolved	ug/L	<5.0	500	433	87	70-130	
Magnesium, Dissolved	ug/L	5040	25000	30200	101	70-130	
Manganese, Dissolved	ug/L	2440	250	2670	92	70-130	
Nickel, Dissolved	ug/L	<40.0	250	255	101	70-130	
Potassium, Dissolved	ug/L	8500	50000	54000	91	70-130	
Sodium, Dissolved	ug/L	52300	50000	101000	97	70-130	
Zinc, Dissolved	ug/L	10.5J	1000	1030	102	70-130	

SAMPLE DUPLICATE: 554955

Parameter	Units	7090528003 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	49.3J	48.7J		
Calcium, Dissolved	ug/L	16600	16400	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	39.8	39.3	1	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	13000	12800	2	
Manganese, Dissolved	ug/L	2330	2300	1	
Nickel, Dissolved	ug/L	<40.0	<40.0		
Potassium, Dissolved	ug/L	23600	23300	1	
Sodium, Dissolved	ug/L	60500	60000	1	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

SAMPLE DUPLICATE: 554957

Parameter	Units	7090528005 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	77.2J	76.4J		
Calcium, Dissolved	ug/L	11700	11500	2	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	12.9J	12.1J		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	5040	4980	1	
Manganese, Dissolved	ug/L	2440	2410	1	
Nickel, Dissolved	ug/L	<40.0	<40.0		
Potassium, Dissolved	ug/L	8500	8320	2	
Sodium, Dissolved	ug/L	52300	51900	1	
Zinc, Dissolved	ug/L	10.5J	10.9J		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115860 Analysis Method: EPA 245.1  
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 547157 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	06/04/19 10:40	

LABORATORY CONTROL SAMPLE: 547158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.94	94	85-115	

MATRIX SPIKE SAMPLE: 547159

Parameter	Units	7090528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.94	84	70-130	

MATRIX SPIKE SAMPLE: 547161

Parameter	Units	30295764001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	1	0.97	93	70-130	

SAMPLE DUPLICATE: 547160

Parameter	Units	7090528002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 547162

Parameter	Units	30295764001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	<0.20		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 347106 Analysis Method: 245.1 Rev. 3.0, 1994  
QC Batch Method: 245.1 Rev. 3.0, 1994 Analysis Description: 245.1 Mercury - Dissolved  
Associated Lab Samples: 7090528003, 7090528005, 7090528007, 7090528009, 7090528011, 7090528013, 7090528015, 7090528018, 7090528020, 7090528022, 7090528024, 7090528026, 7090528028, 7090528031, 7090528033

METHOD BLANK: 1688271 Matrix: Water  
Associated Lab Samples: 7090528003, 7090528005, 7090528007, 7090528009, 7090528011, 7090528013, 7090528015, 7090528018, 7090528020, 7090528022, 7090528024, 7090528026, 7090528028, 7090528031, 7090528033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	06/13/19 17:44	

LABORATORY CONTROL SAMPLE: 1688272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	1.0	101	85-115	

MATRIX SPIKE SAMPLE: 1688274

Parameter	Units	7090528003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	0.050J	2.5	2.6	103	70-130	

MATRIX SPIKE SAMPLE: 1688276

Parameter	Units	7090528024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	0.040J	2.5	2.4	95	70-130	

SAMPLE DUPLICATE: 1688273

Parameter	Units	7090528003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	0.050J	0.060J		

SAMPLE DUPLICATE: 1688275

Parameter	Units	7090528024 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	0.040J	0.050J		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 116227 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 548925 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	06/07/19 17:16	
Barium	ug/L	<200	200	06/07/19 17:16	
Calcium	ug/L	<200	200	06/07/19 17:16	
Chromium	ug/L	<10.0	10.0	06/07/19 17:16	
Copper	ug/L	<25.0	25.0	06/07/19 17:16	
Iron	ug/L	<100	100	06/07/19 17:16	
Lead	ug/L	<5.0	5.0	06/07/19 17:16	
Magnesium	ug/L	<200	200	06/07/19 17:16	
Manganese	ug/L	<10.0	10.0	06/07/19 17:16	
Nickel	ug/L	<40.0	40.0	06/07/19 17:16	
Potassium	ug/L	<5000	5000	06/07/19 17:16	
Sodium	ug/L	<5000	5000	06/07/19 17:16	
Zinc	ug/L	<20.0	20.0	06/07/19 17:16	

LABORATORY CONTROL SAMPLE: 548926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4960	99	85-115	
Barium	ug/L	500	502	100	85-115	
Calcium	ug/L	25000	25500	102	85-115	
Chromium	ug/L	250	254	102	85-115	
Copper	ug/L	250	254	102	85-115	
Iron	ug/L	2000	2070	104	85-115	
Lead	ug/L	500	508	102	85-115	
Magnesium	ug/L	25000	24900	100	85-115	
Manganese	ug/L	250	263	105	85-115	
Nickel	ug/L	250	257	103	85-115	
Potassium	ug/L	50000	48000	96	85-115	
Sodium	ug/L	50000	49800	100	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE SAMPLE: 548928

Parameter	Units	30296124023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	643	5000	5920	106	70-130	
Barium	ug/L	ND	500	511	93	70-130	
Calcium	ug/L	5880	25000	29200	93	70-130	

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

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

**QUALITY CONTROL DATA**

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

MATRIX SPIKE SAMPLE: 548928		30296124023	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chromium	ug/L	ND	250	239	93	70-130	
Copper	ug/L	ND	250	244	96	70-130	
Iron	ug/L	2480	2000	4490	100	70-130	
Lead	ug/L	ND	500	462	92	70-130	
Magnesium	ug/L	2430	25000	25600	93	70-130	
Manganese	ug/L	81.4	250	312	92	70-130	
Nickel	ug/L	ND	250	246	95	70-130	
Potassium	ug/L	ND	50000	48100	93	70-130	
Sodium	ug/L	9380	50000	55300	92	70-130	
Zinc	ug/L	ND	1000	960	95	70-130	

MATRIX SPIKE SAMPLE: 548930		30296124021	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	1690	5000	14100	248	70-130	M1
Barium	ug/L	ND	500	499	96	70-130	
Calcium	ug/L	9050	25000	32700	95	70-130	
Chromium	ug/L	ND	250	248	97	70-130	
Copper	ug/L	ND	250	255	97	70-130	
Iron	ug/L	2170	2000	8080	296	70-130	M1
Lead	ug/L	ND	500	465	93	70-130	
Magnesium	ug/L	1520	25000	25200	95	70-130	
Manganese	ug/L	189	250	426	95	70-130	
Nickel	ug/L	ND	250	268	103	70-130	
Potassium	ug/L	ND	50000	51400	95	70-130	
Sodium	ug/L	10200	50000	57100	94	70-130	
Zinc	ug/L	60.8	1000	1020	96	70-130	

SAMPLE DUPLICATE: 548927

Parameter	Units	30296124023	Dup	RPD	Qualifiers
		Result	Result		
Aluminum	ug/L	643	589	9	
Barium	ug/L	ND	47.7J		
Calcium	ug/L	5880	5810	1	
Chromium	ug/L	ND	5.6J		
Copper	ug/L	ND	<25.0		
Iron	ug/L	2480	2480	0	
Lead	ug/L	ND	<5.0		
Magnesium	ug/L	2430	2410	1	
Manganese	ug/L	81.4	82.1	1	
Nickel	ug/L	ND	9.3J		
Potassium	ug/L	ND	1560J		
Sodium	ug/L	9380	8580	9	
Zinc	ug/L	ND	14.1J		

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**

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

SAMPLE DUPLICATE: 548929

Parameter	Units	30296124021 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	1690	2870	52	D6
Barium	ug/L	ND	18.2J		
Calcium	ug/L	9050	8940	1	
Chromium	ug/L	ND	7.6J		
Copper	ug/L	ND	14.8J		
Iron	ug/L	2170	3960	58	D6
Lead	ug/L	ND	<5.0		
Magnesium	ug/L	1520	1570	3	
Manganese	ug/L	189	193	2	
Nickel	ug/L	ND	14.7J		
Potassium	ug/L	ND	3960J		
Sodium	ug/L	10200	9990	2	
Zinc	ug/L	60.8	62.6	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

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115419 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Associated Lab Samples: 7090528001, 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528016, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528029, 7090528030

METHOD BLANK: 544854 Matrix: Water  
Associated Lab Samples: 7090528001, 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528016, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528029, 7090528030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/28/19 11:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/28/19 11:28	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/28/19 11:28	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/28/19 11:28	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/28/19 11:28	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/28/19 11:28	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/28/19 11:28	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/28/19 11:28	
Benzene	ug/L	<1.0	1.0	05/28/19 11:28	
Bromodichloromethane	ug/L	<1.0	1.0	05/28/19 11:28	
Bromoform	ug/L	<1.0	1.0	05/28/19 11:28	CL
Carbon tetrachloride	ug/L	<1.0	1.0	05/28/19 11:28	
Chlorobenzene	ug/L	<1.0	1.0	05/28/19 11:28	
Chloroethane	ug/L	<1.0	1.0	05/28/19 11:28	
Chloroform	ug/L	<1.0	1.0	05/28/19 11:28	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/28/19 11:28	
Dibromochloromethane	ug/L	<1.0	1.0	05/28/19 11:28	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/28/19 11:28	
Ethylbenzene	ug/L	<1.0	1.0	05/28/19 11:28	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/28/19 11:28	
m&p-Xylene	ug/L	<2.0	2.0	05/28/19 11:28	
Methylene Chloride	ug/L	<1.0	1.0	05/28/19 11:28	
n-Butylbenzene	ug/L	<1.0	1.0	05/28/19 11:28	
o-Xylene	ug/L	<1.0	1.0	05/28/19 11:28	
tert-Butylbenzene	ug/L	<1.0	1.0	05/28/19 11:28	
Tetrachloroethene	ug/L	<1.0	1.0	05/28/19 11:28	CL
Toluene	ug/L	<1.0	1.0	05/28/19 11:28	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/28/19 11:28	
Trichloroethene	ug/L	<1.0	1.0	05/28/19 11:28	
Vinyl chloride	ug/L	<1.0	1.0	05/28/19 11:28	
Xylene (Total)	ug/L	<3.0	3.0	05/28/19 11:28	
1,2-Dichloroethane-d4 (S)	%	96	68-153	05/28/19 11:28	
4-Bromofluorobenzene (S)	%	92	79-124	05/28/19 11:28	
Toluene-d8 (S)	%	89	69-124	05/28/19 11:28	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

LABORATORY CONTROL SAMPLE: 544855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	104	65-118	
1,1-Dichloroethane	ug/L	50	51.5	103	83-151	
1,1-Dichloroethene	ug/L	50	48.5	97	45-146	
1,2-Dichlorobenzene	ug/L	50	39.2	78	74-113	
1,2-Dichloroethane	ug/L	50	45.7	91	74-129	
1,2-Dichloropropane	ug/L	50	44.7	89	75-117	
1,3-Dichlorobenzene	ug/L	50	40.5	81	71-112	
1,4-Dichlorobenzene	ug/L	50	40.5	81	71-113	
Benzene	ug/L	50	47.6	95	73-119	
Bromodichloromethane	ug/L	50	47.6	95	78-117	
Bromoform	ug/L	50	26.7	53	65-122	CL,L2
Carbon tetrachloride	ug/L	50	49.6	99	59-120	
Chlorobenzene	ug/L	50	40.1	80	75-113	
Chloroethane	ug/L	50	50.3	101	49-151	
Chloroform	ug/L	50	47.7	95	72-122	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	72-121	
Dibromochloromethane	ug/L	50	36.3	73	70-120	
Dichlorodifluoromethane	ug/L	50	42.1	84	22-154	
Ethylbenzene	ug/L	50	43.9	88	70-113	
Isopropylbenzene (Cumene)	ug/L	50	44.0	88	67-115	
m&p-Xylene	ug/L	100	86.6	87	72-115	
Methylene Chloride	ug/L	50	48.9	98	61-142	
n-Butylbenzene	ug/L	50	49.3	99	73-107	
o-Xylene	ug/L	50	41.4	83	73-117	
tert-Butylbenzene	ug/L	50	45.4	91	68-100	
Tetrachloroethene	ug/L	50	43.8	88	60-128	CL
Toluene	ug/L	50	49.2	98	72-119	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	56-142	
Trichloroethene	ug/L	50	48.8	98	69-117	
Vinyl chloride	ug/L	50	38.7	77	43-143	
Xylene (Total)	ug/L	150	128	85	71-109	
1,2-Dichloroethane-d4 (S)	%			90	68-153	
4-Bromofluorobenzene (S)	%			100	79-124	
Toluene-d8 (S)	%			88	69-124	

MATRIX SPIKE SAMPLE: 544856

Parameter	Units	7090528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	56.5	113	65-118	
1,1-Dichloroethane	ug/L	<1.0	50	55.5	111	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	52.0	104	45-146	
1,2-Dichlorobenzene	ug/L	<1.0	50	42.2	84	74-113	
1,2-Dichloroethane	ug/L	<1.0	50	49.2	98	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	48.2	96	75-117	
1,3-Dichlorobenzene	ug/L	<1.0	50	43.5	87	71-112	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

MATRIX SPIKE SAMPLE: 544856

Parameter	Units	7090528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.0	50	44.1	88	71-113	
Benzene	ug/L	<1.0	50	49.9	100	73-119	
Bromodichloromethane	ug/L	<1.0	50	47.6	95	78-117	
Bromoform	ug/L	<1.0	50	30.5	61	65-122	CL,M0
Carbon tetrachloride	ug/L	<1.0	50	53.8	108	59-120	
Chlorobenzene	ug/L	<1.0	50	43.5	87	75-113	
Chloroethane	ug/L	<1.0	50	54.8	110	49-151	
Chloroform	ug/L	<1.0	50	50.1	100	72-122	
cis-1,2-Dichloroethene	ug/L	<1.0	50	48.6	97	72-121	
Dibromochloromethane	ug/L	<1.0	50	39.4	79	70-120	
Dichlorodifluoromethane	ug/L	<1.0	50	44.8	90	22-154	
Ethylbenzene	ug/L	<1.0	50	47.8	96	70-113	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	46.2	92	67-115	
m&p-Xylene	ug/L	<2.0	100	92.0	92	72-115	
Methylene Chloride	ug/L	<1.0	50	49.2	98	61-142	
n-Butylbenzene	ug/L	<1.0	50	52.4	105	73-107	
o-Xylene	ug/L	<1.0	50	45.4	91	73-117	
tert-Butylbenzene	ug/L	<1.0	50	46.6	93	68-100	
Tetrachloroethene	ug/L	<1.0	50	38.4	77	60-128	CL
Toluene	ug/L	<1.0	50	51.2	102	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	56.6	113	56-142	
Trichloroethene	ug/L	<1.0	50	52.2	104	69-117	
Vinyl chloride	ug/L	<1.0	50	43.0	86	43-143	
Xylene (Total)	ug/L	<3.0	150	137	92	71-109	
1,2-Dichloroethane-d4 (S)	%				98	68-153	
4-Bromofluorobenzene (S)	%				99	79-124	
Toluene-d8 (S)	%				87	69-124	

SAMPLE DUPLICATE: 544857

Parameter	Units	7090528017 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	1.6	1.6	3	
Benzene	ug/L	2.3	2.3	1	
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		CL
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	1.2	1.4	8	
Chloroethane	ug/L	<1.0	<1.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

SAMPLE DUPLICATE: 544857

Parameter	Units	7090528017 Result	Dup Result	RPD	Qualifiers
Chloroform	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	5.0	5.1	2	
m&p-Xylene	ug/L	<2.0	<2.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		CL
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	93	97		
4-Bromofluorobenzene (S)	%	87	93		
Toluene-d8 (S)	%	92	90		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115968 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Associated Lab Samples: 7090528032

METHOD BLANK: 547915 Matrix: Water  
Associated Lab Samples: 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/31/19 12:20	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/31/19 12:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/31/19 12:20	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/31/19 12:20	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/31/19 12:20	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/31/19 12:20	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/31/19 12:20	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/31/19 12:20	
Benzene	ug/L	<1.0	1.0	05/31/19 12:20	
Bromodichloromethane	ug/L	<1.0	1.0	05/31/19 12:20	
Bromoform	ug/L	<1.0	1.0	05/31/19 12:20	CL
Carbon tetrachloride	ug/L	<1.0	1.0	05/31/19 12:20	
Chlorobenzene	ug/L	<1.0	1.0	05/31/19 12:20	
Chloroethane	ug/L	<1.0	1.0	05/31/19 12:20	
Chloroform	ug/L	<1.0	1.0	05/31/19 12:20	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/31/19 12:20	
Dibromochloromethane	ug/L	<1.0	1.0	05/31/19 12:20	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/31/19 12:20	
Ethylbenzene	ug/L	<1.0	1.0	05/31/19 12:20	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/31/19 12:20	
m&p-Xylene	ug/L	<2.0	2.0	05/31/19 12:20	
Methylene Chloride	ug/L	<1.0	1.0	05/31/19 12:20	
n-Butylbenzene	ug/L	<1.0	1.0	05/31/19 12:20	
o-Xylene	ug/L	<1.0	1.0	05/31/19 12:20	
tert-Butylbenzene	ug/L	<1.0	1.0	05/31/19 12:20	
Tetrachloroethene	ug/L	<1.0	1.0	05/31/19 12:20	
Toluene	ug/L	<1.0	1.0	05/31/19 12:20	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/31/19 12:20	
Trichloroethene	ug/L	<1.0	1.0	05/31/19 12:20	
Vinyl chloride	ug/L	<1.0	1.0	05/31/19 12:20	
Xylene (Total)	ug/L	<3.0	3.0	05/31/19 12:20	
1,2-Dichloroethane-d4 (S)	%	101	68-153	05/31/19 12:20	
4-Bromofluorobenzene (S)	%	86	79-124	05/31/19 12:20	
Toluene-d8 (S)	%	87	69-124	05/31/19 12:20	

LABORATORY CONTROL SAMPLE: 547916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	98	65-118	
1,1-Dichloroethane	ug/L	50	51.3	103	83-151	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

LABORATORY CONTROL SAMPLE: 547916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	47.8	96	45-146	
1,2-Dichlorobenzene	ug/L	50	39.1	78	74-113	
1,2-Dichloroethane	ug/L	50	46.1	92	74-129	
1,2-Dichloropropane	ug/L	50	46.3	93	75-117	
1,3-Dichlorobenzene	ug/L	50	42.4	85	71-112	
1,4-Dichlorobenzene	ug/L	50	39.4	79	71-113	
Benzene	ug/L	50	45.8	92	73-119	
Bromodichloromethane	ug/L	50	46.0	92	78-117	
Bromoform	ug/L	50	30.4	61	65-122	CL,L2
Carbon tetrachloride	ug/L	50	47.6	95	59-120	
Chlorobenzene	ug/L	50	42.5	85	75-113	
Chloroethane	ug/L	50	50.8	102	49-151	
Chloroform	ug/L	50	46.6	93	72-122	
cis-1,2-Dichloroethene	ug/L	50	43.4	87	72-121	
Dibromochloromethane	ug/L	50	40.4	81	70-120	
Dichlorodifluoromethane	ug/L	50	37.8	76	22-154	
Ethylbenzene	ug/L	50	47.5	95	70-113	
Isopropylbenzene (Cumene)	ug/L	50	41.5	83	67-115	
m&p-Xylene	ug/L	100	92.5	92	72-115	
Methylene Chloride	ug/L	50	47.2	94	61-142	
n-Butylbenzene	ug/L	50	47.1	94	73-107	
o-Xylene	ug/L	50	42.6	85	73-117	
tert-Butylbenzene	ug/L	50	41.5	83	68-100	
Tetrachloroethene	ug/L	50	50.9	102	60-128	
Toluene	ug/L	50	48.7	97	72-119	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	56-142	
Trichloroethene	ug/L	50	47.6	95	69-117	
Vinyl chloride	ug/L	50	41.1	82	43-143	
Xylene (Total)	ug/L	150	135	90	71-109	
1,2-Dichloroethane-d4 (S)	%			92	68-153	
4-Bromofluorobenzene (S)	%			102	79-124	
Toluene-d8 (S)	%			90	69-124	

MATRIX SPIKE SAMPLE: 547918

Parameter	Units	7090528032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	54.8	110	65-118	
1,1-Dichloroethane	ug/L	<1.0	50	54.9	110	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	47.8	96	45-146	
1,2-Dichlorobenzene	ug/L	<1.0	50	37.7	75	74-113	
1,2-Dichloroethane	ug/L	<1.0	50	52.8	106	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	51.3	103	75-117	
1,3-Dichlorobenzene	ug/L	<1.0	50	39.3	79	71-112	
1,4-Dichlorobenzene	ug/L	<1.0	50	39.9	80	71-113	
Benzene	ug/L	<1.0	50	50.3	101	73-119	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

MATRIX SPIKE SAMPLE: 547918

Parameter	Units	7090528032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	<1.0	50	51.8	104	78-117	
Bromoform	ug/L	<1.0	50	30.4	61	65-122	CL,M0
Carbon tetrachloride	ug/L	<1.0	50	51.8	104	59-120	
Chlorobenzene	ug/L	<1.0	50	42.5	85	75-113	
Chloroethane	ug/L	<1.0	50	51.6	103	49-151	
Chloroform	ug/L	<1.0	50	51.5	103	72-122	
cis-1,2-Dichloroethene	ug/L	<1.0	50	49.3	99	72-121	
Dibromochloromethane	ug/L	<1.0	50	40.9	82	70-120	
Dichlorodifluoromethane	ug/L	<1.0	50	34.2	68	22-154	
Ethylbenzene	ug/L	<1.0	50	44.6	89	70-113	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	39.5	79	67-115	
m&p-Xylene	ug/L	<2.0	100	92.5	92	72-115	
Methylene Chloride	ug/L	<1.0	50	53.2	106	61-142	
n-Butylbenzene	ug/L	<1.0	50	43.0	86	73-107	
o-Xylene	ug/L	<1.0	50	43.6	87	73-117	
tert-Butylbenzene	ug/L	<1.0	50	39.1	78	68-100	
Tetrachloroethene	ug/L	<1.0	50	35.9	72	60-128	
Toluene	ug/L	<1.0	50	53.3	107	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	53.7	107	56-142	
Trichloroethene	ug/L	<1.0	50	52.9	106	69-117	
Vinyl chloride	ug/L	<1.0	50	37.3	75	43-143	
Xylene (Total)	ug/L	<3.0	150	136	91	71-109	
1,2-Dichloroethane-d4 (S)	%				103	68-153	
4-Bromofluorobenzene (S)	%				95	79-124	
Toluene-d8 (S)	%				83	69-124	

SAMPLE DUPLICATE: 547917

Parameter	Units	7091244001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<10.0	<10.0		
1,1-Dichloroethane	ug/L	<10.0	<10.0		
1,1-Dichloroethene	ug/L	<10.0	<10.0		
1,2-Dichlorobenzene	ug/L	<10.0	<10.0		
1,2-Dichloroethane	ug/L	<10.0	<10.0		
1,2-Dichloropropane	ug/L	<10.0	<10.0		
1,3-Dichlorobenzene	ug/L	<10.0	<10.0		
1,4-Dichlorobenzene	ug/L	<10.0	<10.0		
Benzene	ug/L	<10.0	<10.0		
Bromodichloromethane	ug/L	<10.0	<10.0		
Bromoform	ug/L	<10.0	<10.0		CL
Carbon tetrachloride	ug/L	<10.0	<10.0		
Chlorobenzene	ug/L	<10.0	<10.0		
Chloroethane	ug/L	<10.0	<10.0		
Chloroform	ug/L	<10.0	11.8		
cis-1,2-Dichloroethene	ug/L	<10.0	<10.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

SAMPLE DUPLICATE: 547917

Parameter	Units	7091244001 Result	Dup Result	RPD	Qualifiers
Dibromochloromethane	ug/L	<10.0	<10.0		
Dichlorodifluoromethane	ug/L	<10.0	<10.0		
Ethylbenzene	ug/L	<10.0	<10.0		
Isopropylbenzene (Cumene)	ug/L	<10.0	<10.0		
m&p-Xylene	ug/L	<20.0	<20.0		
Methylene Chloride	ug/L	<10.0	<10.0		
n-Butylbenzene	ug/L	<10.0	<10.0		
o-Xylene	ug/L	<10.0	<10.0		
tert-Butylbenzene	ug/L	<10.0	<10.0		
Tetrachloroethene	ug/L	<10.0	<10.0		
Toluene	ug/L	<10.0	<10.0		
trans-1,2-Dichloroethene	ug/L	<10.0	<10.0		
Trichloroethene	ug/L	<10.0	<10.0		
Vinyl chloride	ug/L	<10.0	<10.0		
Xylene (Total)	ug/L	<30.0	<30.0		
1,2-Dichloroethane-d4 (S)	%	107	104		
4-Bromofluorobenzene (S)	%	90	86		
Toluene-d8 (S)	%	87	90		

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

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115859 Analysis Method: SM22 2320B  
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008

METHOD BLANK: 547153 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	1.0	05/31/19 16:10	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	05/31/19 16:10	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	05/31/19 16:10	

LABORATORY CONTROL SAMPLE: 547154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25	25.8	103	85-115	

MATRIX SPIKE SAMPLE: 547176

Parameter	Units	30295777001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	76.2	25	101	100	75-125	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	76.2	25	101	100	75-125	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND		<1.0			

SAMPLE DUPLICATE: 547175

Parameter	Units	30295777001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	76.2	76.0	0	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	76.2	76.0	0	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	<1.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 116069 Analysis Method: SM22 2320B  
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 7090528010, 7090528012, 7090528014

METHOD BLANK: 548322 Matrix: Water  
Associated Lab Samples: 7090528010, 7090528012, 7090528014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	1.0	06/03/19 16:16	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	06/03/19 16:16	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	06/03/19 16:16	

LABORATORY CONTROL SAMPLE: 548323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25	26.1	105	85-115	

MATRIX SPIKE SAMPLE: 548363

Parameter	Units	7090582003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	24.0	25	49.4	102	75-125	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0		16.5			

SAMPLE DUPLICATE: 548362

Parameter	Units	7090582003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	24.0	24.0	0	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	24.0	24.0	0	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0	<1.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 116123

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Associated Lab Samples: 7090528019, 7090528021, 7090528023, 7090528025, 7090528027

METHOD BLANK: 548739

Matrix: Water

Associated Lab Samples: 7090528019, 7090528021, 7090528023, 7090528025, 7090528027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	1.0	06/03/19 21:59	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	06/03/19 21:59	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	06/03/19 21:59	

LABORATORY CONTROL SAMPLE: 548740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25	26.4	106	85-115	

MATRIX SPIKE SAMPLE: 548742

Parameter	Units	7090528019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	25	27.4	110	75-125	

SAMPLE DUPLICATE: 548741

Parameter	Units	7090528019 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		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 116578

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Associated Lab Samples: 7090528030, 7090528032

METHOD BLANK: 550894

Matrix: Water

Associated Lab Samples: 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<1.0	1.0	06/06/19 14:33	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	06/06/19 14:33	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0	1.0	06/06/19 14:33	

LABORATORY CONTROL SAMPLE: 550895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	25	26.0	104	85-115	

MATRIX SPIKE SAMPLE: 550994

Parameter	Units	7091234001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	59.3	25	85.4	104	75-125	

SAMPLE DUPLICATE: 550993

Parameter	Units	7091234001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	59.3	58.8	1	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	59.3	58.8	1	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<1.0	<1.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 116329	Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B	Analysis Description: 2320B Alkalinity, High Level
Associated Lab Samples: 7090528017	

METHOD BLANK: 549719 Matrix: Water

Associated Lab Samples: 7090528017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<5.0	5.0	06/05/19 10:05	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	<5.0	5.0	06/05/19 10:05	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	<5.0	5.0	06/05/19 10:05	

LABORATORY CONTROL SAMPLE: 549720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	125	129	103	80-120	

MATRIX SPIKE SAMPLE: 549722

Parameter	Units	7091973007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	5170	312	5100	-22	75-125	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	5170	312	5100	-22	75-125	

SAMPLE DUPLICATE: 549721

Parameter	Units	7091973007 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	5170	5260	2	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	5170	5260	2	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	5170	5260	2	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 117167 Analysis Method: SM22 2340C  
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 554822 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<5.0	5.0	06/11/19 12:04	

LABORATORY CONTROL SAMPLE: 554823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	100	99.0	99	90-110	

MATRIX SPIKE SAMPLE: 555024

Parameter	Units	7090528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	85.0	500	600	103	75-125	

SAMPLE DUPLICATE: 555025

Parameter	Units	7090528002 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	85.0	90.0	6	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115374 Analysis Method: SM22 2540C  
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017

METHOD BLANK: 544746 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	05/29/19 09:47	

LABORATORY CONTROL SAMPLE: 544747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	564	113	85-115	

MATRIX SPIKE SAMPLE: 544749

Parameter	Units	30295547001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	234	600	1040	134	75-125	H1,M1

MATRIX SPIKE SAMPLE: 544751

Parameter	Units	7090528017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1690	1200	3330	137	75-125	M1

SAMPLE DUPLICATE: 544748

Parameter	Units	30295547001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	234	216	8	D6,H1

SAMPLE DUPLICATE: 544750

Parameter	Units	7090528017 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	1690	1720	2	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115543 Analysis Method: SM22 2540C  
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 545811 Matrix: Water  
Associated Lab Samples: 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	05/30/19 09:19	

LABORATORY CONTROL SAMPLE: 545812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	534	107	85-115	

MATRIX SPIKE SAMPLE: 545814

Parameter	Units	7090528019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	666	600	1410	125	75-125	

MATRIX SPIKE SAMPLE: 545845

Parameter	Units	7089474021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1140	600	1950	135	75-125	M1

SAMPLE DUPLICATE: 545813

Parameter	Units	7090528019 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	666	660	1	

SAMPLE DUPLICATE: 545844

Parameter	Units	7089474021 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1120	2	

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

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 114804

Analysis Method: SM22 3500-Cr B

QC Batch Method: SM22 3500-Cr B

Analysis Description: Chromium, Hexavalent by 3500

Associated Lab Samples: 7090528002, 7090528003, 7090528004, 7090528005, 7090528006, 7090528007, 7090528008, 7090528009, 7090528010, 7090528011, 7090528012, 7090528013, 7090528014, 7090528015

METHOD BLANK: 541089

Matrix: Water

Associated Lab Samples: 7090528002, 7090528003, 7090528004, 7090528005, 7090528006, 7090528007, 7090528008, 7090528009, 7090528010, 7090528011, 7090528012, 7090528013, 7090528014, 7090528015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/22/19 22:07	

LABORATORY CONTROL SAMPLE: 541090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	101	85-115	

MATRIX SPIKE SAMPLE: 541106

Parameter	Units	7090528004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	102	75-125	

SAMPLE DUPLICATE: 541107

Parameter	Units	7090528004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 114991 Analysis Method: SM22 3500-Cr B  
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500  
Associated Lab Samples: 7090528017, 7090528018, 7090528019, 7090528020, 7090528021, 7090528022, 7090528023, 7090528024, 7090528025, 7090528026, 7090528027, 7090528028

METHOD BLANK: 542252 Matrix: Water  
Associated Lab Samples: 7090528017, 7090528018, 7090528019, 7090528020, 7090528021, 7090528022, 7090528023, 7090528024, 7090528025, 7090528026, 7090528027, 7090528028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/24/19 09:08	

LABORATORY CONTROL SAMPLE: 542253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	102	85-115	

MATRIX SPIKE SAMPLE: 542341

Parameter	Units	7090528019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	101	75-125	

SAMPLE DUPLICATE: 542342

Parameter	Units	7090528019 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115140 Analysis Method: SM22 3500-Cr B  
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500  
Associated Lab Samples: 7090528030, 7090528031, 7090528032, 7090528033

METHOD BLANK: 543057 Matrix: Water  
Associated Lab Samples: 7090528030, 7090528031, 7090528032, 7090528033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/24/19 23:22	

LABORATORY CONTROL SAMPLE: 543058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	102	85-115	

MATRIX SPIKE SAMPLE: 543059

Parameter	Units	7090528030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.45	0.33	74	75-125	M1

SAMPLE DUPLICATE: 543060

Parameter	Units	7090528030 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 116884 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 553247 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	06/08/19 04:07	

LABORATORY CONTROL SAMPLE: 553248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.5	95	90-110	

MATRIX SPIKE SAMPLE: 553249

Parameter	Units	7090528006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	21.4	10	32.2	108	80-120	

SAMPLE DUPLICATE: 553250

Parameter	Units	7090528006 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	21.4	21.7	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

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

**QUALITY CONTROL DATA**

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch:	116702	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
Associated Lab Samples:	7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027		

METHOD BLANK:	552180	Matrix:	Water
Associated Lab Samples:	7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	06/07/19 12:16	

LABORATORY CONTROL SAMPLE: 552181						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.8	95	90-110	

MATRIX SPIKE SAMPLE: 552182							
Parameter	Units	7092241001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.9	99	90-110	

MATRIX SPIKE SAMPLE: 552184							
Parameter	Units	7092242001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.9	98	90-110	

MATRIX SPIKE SAMPLE: 552186							
Parameter	Units	7092244001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	4.1	102	90-110	

SAMPLE DUPLICATE: 552183					
Parameter	Units	7092241001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.045J		

SAMPLE DUPLICATE: 552185					
Parameter	Units	7092242001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

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**

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

---

SAMPLE DUPLICATE: 552187

Parameter	Units	7092244001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.16		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 116703      Analysis Method: EPA 351.2  
 QC Batch Method: EPA 351.2      Analysis Description: 351.2 TKN  
 Associated Lab Samples: 7090528030, 7090528032

METHOD BLANK: 552188      Matrix: Water

Associated Lab Samples: 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	06/07/19 12:43	

LABORATORY CONTROL SAMPLE: 552189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.7	93	90-110	

MATRIX SPIKE SAMPLE: 552190

Parameter	Units	7091122002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.1	4	5.3	104	90-110	

MATRIX SPIKE SAMPLE: 552192

Parameter	Units	7091122006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.3	4	6.9	114	90-110	M1

SAMPLE DUPLICATE: 552191

Parameter	Units	7091122002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.1	1.1	5	

SAMPLE DUPLICATE: 552193

Parameter	Units	7091122006 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.3	2.4	2	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 114808 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014

METHOD BLANK: 541151 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	05/22/19 23:16	

LABORATORY CONTROL SAMPLE: 541152

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

MATRIX SPIKE SAMPLE: 541153

Parameter	Units	7089474016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.62	119	90-110	M1

MATRIX SPIKE SAMPLE: 541155

Parameter	Units	7090528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.63	122	90-110	M1

SAMPLE DUPLICATE: 541154

Parameter	Units	7089474016 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 541156

Parameter	Units	7090528002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 114997 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.  
Associated Lab Samples: 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027

METHOD BLANK: 542274 Matrix: Water  
Associated Lab Samples: 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	05/24/19 08:47	

LABORATORY CONTROL SAMPLE: 542275

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

MATRIX SPIKE SAMPLE: 542276

Parameter	Units	7090689001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.77	154	90-110	M1

MATRIX SPIKE SAMPLE: 542278

Parameter	Units	7090689006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	109	90-110	

SAMPLE DUPLICATE: 542277

Parameter	Units	7090689001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 542279

Parameter	Units	7090689006 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 115146

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Associated Lab Samples: 7090528030, 7090528032

METHOD BLANK: 543127

Matrix: Water

Associated Lab Samples: 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	05/25/19 07:56	

LABORATORY CONTROL SAMPLE: 543128

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

MATRIX SPIKE SAMPLE: 543129

Parameter	Units	7089474021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.56	111	90-110	

MATRIX SPIKE SAMPLE: 543131

Parameter	Units	7090872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	101	90-110	

SAMPLE DUPLICATE: 543130

Parameter	Units	7089474021 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 543132

Parameter	Units	7090872001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 114812 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014

METHOD BLANK: 541182 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	05/23/19 01:12	

LABORATORY CONTROL SAMPLE: 541183

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

MATRIX SPIKE SAMPLE: 541184

Parameter	Units	7090513001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.3	5	9.7	107	90-110	

MATRIX SPIKE SAMPLE: 541186

Parameter	Units	7089474016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.3	5	11.3	100	90-110	

SAMPLE DUPLICATE: 541185

Parameter	Units	7090513001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.3	4.3	1	

SAMPLE DUPLICATE: 541187

Parameter	Units	7089474016 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.3	6.2	2	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115010 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027

METHOD BLANK: 542334 Matrix: Water  
Associated Lab Samples: 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	05/24/19 10:23	

LABORATORY CONTROL SAMPLE: 542335

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: 542336

Parameter	Units	7090580006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	28.3	25	25.8	-10	90-110	M6

MATRIX SPIKE SAMPLE: 542338

Parameter	Units	7090757002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.2	5	9.2	99	90-110	

SAMPLE DUPLICATE: 542337

Parameter	Units	7090580006 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	28.3	27.0	5	

SAMPLE DUPLICATE: 542339

Parameter	Units	7090757002 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.2	4.1	2	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115152 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 7090528030, 7090528032

METHOD BLANK: 543150 Matrix: Water  
Associated Lab Samples: 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	05/25/19 10:29	

LABORATORY CONTROL SAMPLE: 543151

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: 543152

Parameter	Units	7090861010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	39.3	25	36.5	-11	90-110	M6

MATRIX SPIKE SAMPLE: 543154

Parameter	Units	7089474021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.10	0.5	0.67	113	90-110	M1

SAMPLE DUPLICATE: 543153

Parameter	Units	7090861010 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	39.3	36.6	7	

SAMPLE DUPLICATE: 543155

Parameter	Units	7089474021 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.10	0.088	16	

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 115545

Analysis Method: SM22 4500-CN-E

QC Batch Method: SM20/22 4500-CN-C

Analysis Description: 4500 CNE Cyanide, Total

Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014

METHOD BLANK: 545819

Matrix: Water

Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012, 7090528014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	05/30/19 13:27	

LABORATORY CONTROL SAMPLE: 545820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	68.7	92	85-115	

MATRIX SPIKE SAMPLE: 545821

Parameter	Units	7090132001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	95.8	94	75-125	

SAMPLE DUPLICATE: 545822

Parameter	Units	7090132001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 115742 Analysis Method: SM22 4500-CN-E  
QC Batch Method: SM20/22 4500-CN-C Analysis Description: 4500 CNE Cyanide, Total  
Associated Lab Samples: 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 546650 Matrix: Water  
Associated Lab Samples: 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	05/31/19 13:04	

LABORATORY CONTROL SAMPLE: 546651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	66.5	89	85-115	

MATRIX SPIKE SAMPLE: 546652

Parameter	Units	7090926027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<0.010 mg/L	100	106	100	75-125	

SAMPLE DUPLICATE: 546653

Parameter	Units	7090926027 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<0.010 mg/L	3.6J		

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

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

### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 116735 Analysis Method: SM22 4500-Cl-E  
 QC Batch Method: SM22 4500-Cl-E Analysis Description: 4500 Chloride  
 Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012

METHOD BLANK: 552262 Matrix: Water  
 Associated Lab Samples: 7090528002, 7090528004, 7090528006, 7090528008, 7090528010, 7090528012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	06/07/19 12:04	

LABORATORY CONTROL SAMPLE: 552263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	

MATRIX SPIKE SAMPLE: 552264

Parameter	Units	7091449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10.3	25	36.4	105	80-120	

SAMPLE DUPLICATE: 552265

Parameter	Units	7091449001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	10.3	10.4	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

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

QC Batch: 116739

Analysis Method: SM22 4500-Cl-E

QC Batch Method: SM22 4500-Cl-E

Analysis Description: 4500 Chloride

Associated Lab Samples: 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

METHOD BLANK: 552271

Matrix: Water

Associated Lab Samples: 7090528014, 7090528017, 7090528019, 7090528021, 7090528023, 7090528025, 7090528027, 7090528030, 7090528032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	06/07/19 12:23	

LABORATORY CONTROL SAMPLE: 552272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	

MATRIX SPIKE SAMPLE: 552273

Parameter	Units	7091994001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	7.4	25	34.0	106	80-120	

SAMPLE DUPLICATE: 552274

Parameter	Units	7091994001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	7.4	7.5	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

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



### QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

QC Batch: 117397 Analysis Method: SM22 4500 NH3 H  
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia  
Associated Lab Samples: 7090528002, 7090528030

METHOD BLANK: 555908 Matrix: Water  
Associated Lab Samples: 7090528002, 7090528030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	06/11/19 14:53	

LABORATORY CONTROL SAMPLE: 555909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 555910

Parameter	Units	7092254001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.39	1	1.5	109	75-125	

SAMPLE DUPLICATE: 555911

Parameter	Units	7092254001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.39	0.38	2	

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

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

## QUALIFIERS

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

### LABORATORIES

PACE-MV Pace Analytical Services - Melville

PASI-PA Pace Analytical Services - Greensburg

### ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7090528002	OBS-1_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528004	MW-09B_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528006	MW-09C_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528008	BLIND DUPLICATE_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528010	MW-05B_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528012	MW-08B_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528014	MW-08A_5/22/19	EPA 200.7	116227	EPA 200.7	116243
7090528017	LF-2_5/23/19	EPA 200.7	116227	EPA 200.7	116243
7090528019	MW-06F_5/23/19	EPA 200.7	116227	EPA 200.7	116243
7090528021	MW-06C_5/23/19	EPA 200.7	116227	EPA 200.7	116243
7090528023	MW-06B_5/23/19	EPA 200.7	116227	EPA 200.7	116243
7090528025	MW-06E_5/23/19	EPA 200.7	116227	EPA 200.7	116243
7090528027	MW-06A_5/23/19	EPA 200.7	116227	EPA 200.7	116243
7090528030	LF-1_5/24/19	EPA 200.7	116227	EPA 200.7	116243
7090528032	FIELD BLANK_5/24/19	EPA 200.7	116227	EPA 200.7	116243
7090528003	OBS-1_5/22/19 DISS	EPA 200.7	117214		
7090528005	MW-09B_5/22/19 DISS	EPA 200.7	117214		
7090528007	MW-09C_5/22/19 DISS	EPA 200.7	117214		
7090528009	BLIND DUPLICATE_5/22/19 DISS	EPA 200.7	117214		
7090528011	MW-05B_5/22/19 DISS	EPA 200.7	117214		
7090528013	MW-08B_5/22/19 DISS	EPA 200.7	117214		
7090528015	MW-08A_5/22/19 DISS	EPA 200.7	117214		
7090528018	LF-2_5/23/19 DISS	EPA 200.7	117214		
7090528020	MW-06F_5/23/19 DISS	EPA 200.7	117214		
7090528022	MW-06C_5/23/19 DISS	EPA 200.7	117214		
7090528024	MW-06B_5/23/19 DISS	EPA 200.7	117214		
7090528026	MW-06E_5/23/19 DISS	EPA 200.7	117214		
7090528028	MW-06A_5/23/19 DISS	EPA 200.7	117214		
7090528031	LF-1_5/24/19 DISS	EPA 200.7	117214		
7090528033	FIELD BLANK_5/24/19 DISS	EPA 200.7	117214		
7090528002	OBS-1_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528004	MW-09B_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528006	MW-09C_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528008	BLIND DUPLICATE_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528010	MW-05B_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528012	MW-08B_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528014	MW-08A_5/22/19	EPA 245.1	115860	EPA 245.1	115865
7090528017	LF-2_5/23/19	EPA 245.1	115860	EPA 245.1	115865
7090528019	MW-06F_5/23/19	EPA 245.1	115860	EPA 245.1	115865
7090528021	MW-06C_5/23/19	EPA 245.1	115860	EPA 245.1	115865
7090528023	MW-06B_5/23/19	EPA 245.1	115860	EPA 245.1	115865
7090528025	MW-06E_5/23/19	EPA 245.1	115860	EPA 245.1	115865
7090528027	MW-06A_5/23/19	EPA 245.1	115860	EPA 245.1	115865
7090528030	LF-1_5/24/19	EPA 245.1	115860	EPA 245.1	115865
7090528032	FIELD BLANK_5/24/19	EPA 245.1	115860	EPA 245.1	115865
7090528003	OBS-1_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528005	MW-09B_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147

### REPORT OF LABORATORY ANALYSIS

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

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7090528007	MW-09C_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528009	BLIND DUPLICATE_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528011	MW-05B_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528013	MW-08B_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528015	MW-08A_5/22/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528018	LF-2_5/23/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528020	MW-06F_5/23/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528022	MW-06C_5/23/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528024	MW-06B_5/23/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528026	MW-06E_5/23/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528028	MW-06A_5/23/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528031	LF-1_5/24/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528033	FIELD BLANK_5/24/19 DISS	245.1 Rev. 3.0, 1994	347106	245.1 Rev. 3.0, 1994	347147
7090528001	TRIP BLANK_5/22/19	EPA 8260C/5030C	115419		
7090528002	OBS-1_5/22/19	EPA 8260C/5030C	115419		
7090528004	MW-09B_5/22/19	EPA 8260C/5030C	115419		
7090528006	MW-09C_5/22/19	EPA 8260C/5030C	115419		
7090528008	BLIND DUPLICATE_5/22/19	EPA 8260C/5030C	115419		
7090528010	MW-05B_5/22/19	EPA 8260C/5030C	115419		
7090528012	MW-08B_5/22/19	EPA 8260C/5030C	115419		
7090528014	MW-08A_5/22/19	EPA 8260C/5030C	115419		
7090528016	TRIP BLANK_5/23/19	EPA 8260C/5030C	115419		
7090528017	LF-2_5/23/19	EPA 8260C/5030C	115419		
7090528019	MW-06F_5/23/19	EPA 8260C/5030C	115419		
7090528021	MW-06C_5/23/19	EPA 8260C/5030C	115419		
7090528023	MW-06B_5/23/19	EPA 8260C/5030C	115419		
7090528025	MW-06E_5/23/19	EPA 8260C/5030C	115419		
7090528027	MW-06A_5/23/19	EPA 8260C/5030C	115419		
7090528029	TRIP BLANK_5/24/19	EPA 8260C/5030C	115419		
7090528030	LF-1_5/24/19	EPA 8260C/5030C	115419		
7090528032	FIELD BLANK_5/24/19	EPA 8260C/5030C	115968		
7090528002	OBS-1_5/22/19	SM22 2320B	115859		
7090528004	MW-09B_5/22/19	SM22 2320B	115859		
7090528006	MW-09C_5/22/19	SM22 2320B	115859		
7090528008	BLIND DUPLICATE_5/22/19	SM22 2320B	115859		
7090528010	MW-05B_5/22/19	SM22 2320B	116069		
7090528012	MW-08B_5/22/19	SM22 2320B	116069		
7090528014	MW-08A_5/22/19	SM22 2320B	116069		
7090528019	MW-06F_5/23/19	SM22 2320B	116123		
7090528021	MW-06C_5/23/19	SM22 2320B	116123		
7090528023	MW-06B_5/23/19	SM22 2320B	116123		
7090528025	MW-06E_5/23/19	SM22 2320B	116123		
7090528027	MW-06A_5/23/19	SM22 2320B	116123		
7090528030	LF-1_5/24/19	SM22 2320B	116578		
7090528032	FIELD BLANK_5/24/19	SM22 2320B	116578		

### REPORT OF LABORATORY ANALYSIS

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

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7090528017	LF-2_5/23/19	SM22 2320B	116329		
7090528002	OBS-1_5/22/19	SM22 2340C	117167		
7090528004	MW-09B_5/22/19	SM22 2340C	117167		
7090528006	MW-09C_5/22/19	SM22 2340C	117167		
7090528008	BLIND DUPLICATE_5/22/19	SM22 2340C	117167		
7090528010	MW-05B_5/22/19	SM22 2340C	117167		
7090528012	MW-08B_5/22/19	SM22 2340C	117167		
7090528014	MW-08A_5/22/19	SM22 2340C	117167		
7090528017	LF-2_5/23/19	SM22 2340C	117167		
7090528019	MW-06F_5/23/19	SM22 2340C	117167		
7090528021	MW-06C_5/23/19	SM22 2340C	117167		
7090528023	MW-06B_5/23/19	SM22 2340C	117167		
7090528025	MW-06E_5/23/19	SM22 2340C	117167		
7090528027	MW-06A_5/23/19	SM22 2340C	117167		
7090528030	LF-1_5/24/19	SM22 2340C	117167		
7090528032	FIELD BLANK_5/24/19	SM22 2340C	117167		
7090528002	OBS-1_5/22/19	SM22 2540C	115374		
7090528004	MW-09B_5/22/19	SM22 2540C	115374		
7090528006	MW-09C_5/22/19	SM22 2540C	115374		
7090528008	BLIND DUPLICATE_5/22/19	SM22 2540C	115374		
7090528010	MW-05B_5/22/19	SM22 2540C	115374		
7090528012	MW-08B_5/22/19	SM22 2540C	115374		
7090528014	MW-08A_5/22/19	SM22 2540C	115374		
7090528017	LF-2_5/23/19	SM22 2540C	115374		
7090528019	MW-06F_5/23/19	SM22 2540C	115543		
7090528021	MW-06C_5/23/19	SM22 2540C	115543		
7090528023	MW-06B_5/23/19	SM22 2540C	115543		
7090528025	MW-06E_5/23/19	SM22 2540C	115543		
7090528027	MW-06A_5/23/19	SM22 2540C	115543		
7090528030	LF-1_5/24/19	SM22 2540C	115543		
7090528032	FIELD BLANK_5/24/19	SM22 2540C	115543		
7090528002	OBS-1_5/22/19	SM22 3500-Cr B	114804		
7090528003	OBS-1_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528004	MW-09B_5/22/19	SM22 3500-Cr B	114804		
7090528005	MW-09B_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528006	MW-09C_5/22/19	SM22 3500-Cr B	114804		
7090528007	MW-09C_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528008	BLIND DUPLICATE_5/22/19	SM22 3500-Cr B	114804		
7090528009	BLIND DUPLICATE_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528010	MW-05B_5/22/19	SM22 3500-Cr B	114804		
7090528011	MW-05B_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528012	MW-08B_5/22/19	SM22 3500-Cr B	114804		
7090528013	MW-08B_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528014	MW-08A_5/22/19	SM22 3500-Cr B	114804		
7090528015	MW-08A_5/22/19 DISS	SM22 3500-Cr B	114804		
7090528017	LF-2_5/23/19	SM22 3500-Cr B	114991		

### REPORT OF LABORATORY ANALYSIS

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



**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7090528018	LF-2_5/23/19 DISS	SM22 3500-Cr B	114991		
7090528019	MW-06F_5/23/19	SM22 3500-Cr B	114991		
7090528020	MW-06F_5/23/19 DISS	SM22 3500-Cr B	114991		
7090528021	MW-06C_5/23/19	SM22 3500-Cr B	114991		
7090528022	MW-06C_5/23/19 DISS	SM22 3500-Cr B	114991		
7090528023	MW-06B_5/23/19	SM22 3500-Cr B	114991		
7090528024	MW-06B_5/23/19 DISS	SM22 3500-Cr B	114991		
7090528025	MW-06E_5/23/19	SM22 3500-Cr B	114991		
7090528026	MW-06E_5/23/19 DISS	SM22 3500-Cr B	114991		
7090528027	MW-06A_5/23/19	SM22 3500-Cr B	114991		
7090528028	MW-06A_5/23/19 DISS	SM22 3500-Cr B	114991		
7090528030	LF-1_5/24/19	SM22 3500-Cr B	115140		
7090528031	LF-1_5/24/19 DISS	SM22 3500-Cr B	115140		
7090528032	FIELD BLANK_5/24/19	SM22 3500-Cr B	115140		
7090528033	FIELD BLANK_5/24/19 DISS	SM22 3500-Cr B	115140		
7090528002	OBS-1_5/22/19	EPA 300.0	116884		
7090528004	MW-09B_5/22/19	EPA 300.0	116884		
7090528006	MW-09C_5/22/19	EPA 300.0	116884		
7090528008	BLIND DUPLICATE_5/22/19	EPA 300.0	116884		
7090528010	MW-05B_5/22/19	EPA 300.0	116884		
7090528012	MW-08B_5/22/19	EPA 300.0	116884		
7090528014	MW-08A_5/22/19	EPA 300.0	116884		
7090528017	LF-2_5/23/19	EPA 300.0	116884		
7090528019	MW-06F_5/23/19	EPA 300.0	116884		
7090528021	MW-06C_5/23/19	EPA 300.0	116884		
7090528023	MW-06B_5/23/19	EPA 300.0	116884		
7090528025	MW-06E_5/23/19	EPA 300.0	116884		
7090528027	MW-06A_5/23/19	EPA 300.0	116884		
7090528030	LF-1_5/24/19	EPA 300.0	116884		
7090528032	FIELD BLANK_5/24/19	EPA 300.0	116884		
7090528002	OBS-1_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528004	MW-09B_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528006	MW-09C_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528008	BLIND DUPLICATE_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528010	MW-05B_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528012	MW-08B_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528014	MW-08A_5/22/19	EPA 351.2	116702	EPA 351.2	116727
7090528017	LF-2_5/23/19	EPA 351.2	116702	EPA 351.2	116727
7090528019	MW-06F_5/23/19	EPA 351.2	116702	EPA 351.2	116727
7090528021	MW-06C_5/23/19	EPA 351.2	116702	EPA 351.2	116727
7090528023	MW-06B_5/23/19	EPA 351.2	116702	EPA 351.2	116727
7090528025	MW-06E_5/23/19	EPA 351.2	116702	EPA 351.2	116727
7090528027	MW-06A_5/23/19	EPA 351.2	116702	EPA 351.2	116727
7090528030	LF-1_5/24/19	EPA 351.2	116703	EPA 351.2	116728
7090528032	FIELD BLANK_5/24/19	EPA 351.2	116703	EPA 351.2	116728
7090528002	OBS-1_5/22/19	EPA 353.2	114812		

**REPORT OF LABORATORY ANALYSIS**

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



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL

Pace Project No.: 7090528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7090528004	MW-09B_5/22/19	EPA 353.2	114812		
7090528006	MW-09C_5/22/19	EPA 353.2	114812		
7090528008	BLIND DUPLICATE_5/22/19	EPA 353.2	114812		
7090528010	MW-05B_5/22/19	EPA 353.2	114812		
7090528012	MW-08B_5/22/19	EPA 353.2	114812		
7090528014	MW-08A_5/22/19	EPA 353.2	114812		
7090528017	LF-2_5/23/19	EPA 353.2	115010		
7090528019	MW-06F_5/23/19	EPA 353.2	115010		
7090528021	MW-06C_5/23/19	EPA 353.2	115010		
7090528023	MW-06B_5/23/19	EPA 353.2	115010		
7090528025	MW-06E_5/23/19	EPA 353.2	115010		
7090528027	MW-06A_5/23/19	EPA 353.2	115010		
7090528030	LF-1_5/24/19	EPA 353.2	115152		
7090528032	FIELD BLANK_5/24/19	EPA 353.2	115152		
7090528002	OBS-1_5/22/19	EPA 353.2	114808		
7090528004	MW-09B_5/22/19	EPA 353.2	114808		
7090528006	MW-09C_5/22/19	EPA 353.2	114808		
7090528008	BLIND DUPLICATE_5/22/19	EPA 353.2	114808		
7090528010	MW-05B_5/22/19	EPA 353.2	114808		
7090528012	MW-08B_5/22/19	EPA 353.2	114808		
7090528014	MW-08A_5/22/19	EPA 353.2	114808		
7090528017	LF-2_5/23/19	EPA 353.2	114997		
7090528019	MW-06F_5/23/19	EPA 353.2	114997		
7090528021	MW-06C_5/23/19	EPA 353.2	114997		
7090528023	MW-06B_5/23/19	EPA 353.2	114997		
7090528025	MW-06E_5/23/19	EPA 353.2	114997		
7090528027	MW-06A_5/23/19	EPA 353.2	114997		
7090528030	LF-1_5/24/19	EPA 353.2	115146		
7090528032	FIELD BLANK_5/24/19	EPA 353.2	115146		
7090528002	OBS-1_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528004	MW-09B_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528006	MW-09C_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528008	BLIND DUPLICATE_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528010	MW-05B_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528012	MW-08B_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528014	MW-08A_5/22/19	SM20/22 4500-CN-C	115545	SM22 4500-CN-E	115558
7090528017	LF-2_5/23/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528019	MW-06F_5/23/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528021	MW-06C_5/23/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528023	MW-06B_5/23/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528025	MW-06E_5/23/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528027	MW-06A_5/23/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528030	LF-1_5/24/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528032	FIELD BLANK_5/24/19	SM20/22 4500-CN-C	115742	SM22 4500-CN-E	115769
7090528002	OBS-1_5/22/19	SM22 4500-CI-E	116735		

### REPORT OF LABORATORY ANALYSIS

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

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: OLD BETHPAGE LANDFILL  
Pace Project No.: 7090528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7090528004	MW-09B_5/22/19	SM22 4500-CI-E	116735		
7090528006	MW-09C_5/22/19	SM22 4500-CI-E	116735		
7090528008	BLIND DUPLICATE_5/22/19	SM22 4500-CI-E	116735		
7090528010	MW-05B_5/22/19	SM22 4500-CI-E	116735		
7090528012	MW-08B_5/22/19	SM22 4500-CI-E	116735		
7090528014	MW-08A_5/22/19	SM22 4500-CI-E	116739		
7090528017	LF-2_5/23/19	SM22 4500-CI-E	116739		
7090528019	MW-06F_5/23/19	SM22 4500-CI-E	116739		
7090528021	MW-06C_5/23/19	SM22 4500-CI-E	116739		
7090528023	MW-06B_5/23/19	SM22 4500-CI-E	116739		
7090528025	MW-06E_5/23/19	SM22 4500-CI-E	116739		
7090528027	MW-06A_5/23/19	SM22 4500-CI-E	116739		
7090528030	LF-1_5/24/19	SM22 4500-CI-E	116739		
7090528032	FIELD BLANK_5/24/19	SM22 4500-CI-E	116739		
7090528002	OBS-1_5/22/19	SM22 4500 NH3 H	117397		
7090528004	MW-09B_5/22/19	SM22 4500 NH3 H	117021		
7090528006	MW-09C_5/22/19	SM22 4500 NH3 H	117021		
7090528008	BLIND DUPLICATE_5/22/19	SM22 4500 NH3 H	117021		
7090528010	MW-05B_5/22/19	SM22 4500 NH3 H	117021		
7090528012	MW-08B_5/22/19	SM22 4500 NH3 H	117021		
7090528014	MW-08A_5/22/19	SM22 4500 NH3 H	117021		
7090528017	LF-2_5/23/19	SM22 4500 NH3 H	117021		
7090528019	MW-06F_5/23/19	SM22 4500 NH3 H	117021		
7090528021	MW-06C_5/23/19	SM22 4500 NH3 H	117021		
7090528023	MW-06B_5/23/19	SM22 4500 NH3 H	117021		
7090528025	MW-06E_5/23/19	SM22 4500 NH3 H	117021		
7090528027	MW-06A_5/23/19	SM22 4500 NH3 H	117021		
7090528030	LF-1_5/24/19	SM22 4500 NH3 H	117397		
7090528032	FIELD BLANK_5/24/19	SM22 4500 NH3 H	117021		

**REPORT OF LABORATORY ANALYSIS**

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





# Sample Condition Upon Receipt

Client Name: TOWN OYSTERBAY Project

**WO#: 7090528**

PM: JSA Due Date: 06/07/19

CLIENT: TOY

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: \_\_\_\_\_

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

Temperature Blank Present:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Type of Ice:  Wet  Blue  None

Thermometer Used: TH091

Correction Factor: 0.0

Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.8

Cooler Temperature Corrected (°C): 1.8

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: 5/22/19 JSP

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 (internationally, 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 MS/MSD):	<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/Analysis Matrix SL <input checked="" type="checkbox"/> 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>HC563463</u>			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		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 #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		16.
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

WO#: 7090528

Client Name: TOY

Proc

PM: JSA Due Date: 06/07/19  
CLIENT: TOY

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: \_\_\_\_\_

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

Temperature Blank Present:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Type of Ice:  Wet  Blue  None

Thermometer Used: TH091

Correction Factor: 0.0

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.1

Cooler Temperature Corrected (°C): 4.1

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: OKS/24A

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 (internationally, 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 MS/MSD)	<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/Analysis 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 EPA recommendation? (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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		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 #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		16.
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.







# Sample Condition Upon Receipt

**WO#: 7090528**  
 PM: JSA Due Date: 06/07/19  
 CLIENT: TOY

Client Name: JANN OF QIPER Ba

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091 Correction Factor: 0.0

Cooler Temperature (°C): 5.4 Cooler Temperature Corrected (°C): 5.4

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( N/A, water sample)

Date and Initials of person examining contents: JKS/03/19

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 (internationally, 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 MS/MSD)	<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 checked="" type="checkbox"/> No <input 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/Analysis Matrix St. 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>HC 863463</u>		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
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. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
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.



## ANALYTICAL REPORT

Job Number: 420-154463-1

SDG Number: 7090528

Job Description: Pace Analytical Sevices, Inc.-Mellville

For:

Pace Analytical Mellville  
575 Broadhollow Road  
Melville, NY 11747

Attention: James Murphy

*Laura Marciano*

---

Laura L Marciano  
Customer Service Manager  
lmarciano@envirotestlaboratories.com  
06/07/2019

cc: Ms. Jen Aracri  
Betty Harrison  
Accounts Payable  
Sophia Sparkes

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOH PH-0554

## EXECUTIVE SUMMARY - Detections

Client: Pace Analytical Melville

Job Number: 420-154463-1

Sdg Number: 7090528

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
420-154463-13 Phenolics, Total Recoverable	MW-06A_5/23/19	0.011	0.010	mg/L	420.4 Rev. 1.0

## METHOD SUMMARY

Client: Pace Analytical Mellville

Job Number: 420-154463-1

SDG Number: 7090528

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Water</b>			
Phenols Semi-Automated	EnvTest	EPA 420.4 Rev. 1.0	
Distillation/Phenolics	EnvTest		Distill/Phenol

### Lab References:

EnvTest = EnviroTest

### Method References:

EPA = US Environmental Protection Agency

**METHOD / ANALYST SUMMARY**

Client: Pace Analytical Melville

Job Number: 420-154463-1

SDG Number: 7090528

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA 420.4 Rev. 1.0	Mastrobuono, Danielle	DM

## SAMPLE SUMMARY

Client: Pace Analytical Mellville

Job Number: 420-154463-1

SDG Number: 7090528

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
420-154463-1	OBS-1_5/22/19	Water	05/22/2019 0915	05/31/2019 0950
420-154463-2	MW-09B_05/22/19	Water	05/22/2019 1140	05/31/2019 0950
420-154463-3	MW-09C_05/22/19	Water	05/22/2019 1145	05/31/2019 0950
420-154463-4	BLIND DUPLICATE_05/22/19	Water	05/22/2019 0000	05/31/2019 0950
420-154463-5	MW-05B_5/22/19	Water	05/22/2019 1400	05/31/2019 0950
420-154463-6	MW-08B_5/22/19	Water	05/22/2019 1645	05/31/2019 0950
420-154463-7	MW-08A_5/22/19	Water	05/22/2019 1800	05/31/2019 0950
420-154463-8	LF-2_05/23/19	Water	05/23/2019 1015	05/31/2019 0950
420-154463-9	MW-06F_5/23/19	Water	05/23/2019 1315	05/31/2019 0950
420-154463-10	MW-06C_5/23/19	Water	05/23/2019 1325	05/31/2019 0950
420-154463-11	MW-06B_5/23/19	Water	05/23/2019 1600	05/31/2019 0950
420-154463-12	MW-06E_5/23/19	Water	05/23/2019 1655	05/31/2019 0950
420-154463-13	MW-06A_5/23/19	Water	05/23/2019 1800	05/31/2019 0950
420-154463-14	LF-1_5/24/19	Water	05/24/2019 1140	05/31/2019 0950
420-154463-15	FIELD BLANK_5/24/19	Water	05/24/2019 1200	05/31/2019 0950

# SAMPLE RESULTS

Analytical Data

Client: Pace Analytical Melville

Job Number: 420-154463-1  
Sdg Number: 7090528

General Chemistry

Client Sample ID: OBS-1\_5/22/19

Lab Sample ID: 420-154463-1  
Client Matrix: Water

Date Sampled: 05/22/2019 0915  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1453			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: MW-09B\_05/22/19

Lab Sample ID: 420-154463-2  
Client Matrix: Water

Date Sampled: 05/22/2019 1140  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1445			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: MW-09C\_05/22/19

Lab Sample ID: 420-154463-3  
Client Matrix: Water

Date Sampled: 05/22/2019 1145  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1446			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: BLIND DUPLICATE\_05/22/19

Lab Sample ID: 420-154463-4  
Client Matrix: Water

Date Sampled: 05/22/2019 0000  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1446			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: MW-05B\_5/22/19

Lab Sample ID: 420-154463-5  
Client Matrix: Water

Date Sampled: 05/22/2019 1400  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1447			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Analytical Data

Client: Pace Analytical Melville

Job Number: 420-154463-1

Sdg Number: 7090528

General Chemistry

Client Sample ID: MW-08B\_5/22/19

Lab Sample ID: 420-154463-6

Date Sampled: 05/22/2019 1645

Client Matrix: Water

Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1448			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: MW-08A\_5/22/19

Lab Sample ID: 420-154463-7

Date Sampled: 05/22/2019 1800

Client Matrix: Water

Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1448			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: LF-2\_05/23/19

Lab Sample ID: 420-154463-8

Date Sampled: 05/23/2019 1015

Client Matrix: Water

Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1449			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: MW-06F\_5/23/19

Lab Sample ID: 420-154463-9

Date Sampled: 05/23/2019 1315

Client Matrix: Water

Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1502			
Prep Batch:		Date Prepared:	06/03/2019	0952			

Client Sample ID: MW-06C\_5/23/19

Lab Sample ID: 420-154463-10

Date Sampled: 05/23/2019 1325

Client Matrix: Water

Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
Anly Batch:		Date Analyzed	06/03/2019	1503			
Prep Batch:		Date Prepared:	06/03/2019	0952			



## Analytical Data

Client: Pace Analytical Melville

Job Number: 420-154463-1  
Sdg Number: 7090528

### General Chemistry

**Client Sample ID: MW-06B\_5/23/19**

Lab Sample ID: 420-154463-11  
Client Matrix: Water

Date Sampled: 05/23/2019 1600  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
	Anly Batch:	Date Analyzed	06/03/2019	1504			
	Prep Batch:	Date Prepared:	06/03/2019	0952			

**Client Sample ID: MW-06E\_5/23/19**

Lab Sample ID: 420-154463-12  
Client Matrix: Water

Date Sampled: 05/23/2019 1655  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
	Anly Batch:	Date Analyzed	06/03/2019	1520			
	Prep Batch:	Date Prepared:	06/03/2019	0952			

**Client Sample ID: MW-06A\_5/23/19**

Lab Sample ID: 420-154463-13  
Client Matrix: Water

Date Sampled: 05/23/2019 1800  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	0.011		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
	Anly Batch:	Date Analyzed	06/03/2019	1505			
	Prep Batch:	Date Prepared:	06/03/2019	0952			

**Client Sample ID: LF-1\_5/24/19**

Lab Sample ID: 420-154463-14  
Client Matrix: Water

Date Sampled: 05/24/2019 1140  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
	Anly Batch:	Date Analyzed	06/03/2019	1506			
	Prep Batch:	Date Prepared:	06/03/2019	0952			

**Client Sample ID: FIELD BLANK\_5/24/19**

Lab Sample ID: 420-154463-15  
Client Matrix: Water

Date Sampled: 05/24/2019 1200  
Date Received: 05/31/2019 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Phenolics, Total Recoverable	<0.010		mg/L	0.010	0.010	1.0	420.4 Rev. 1.0
	Anly Batch:	Date Analyzed	06/03/2019	1506			
	Prep Batch:	Date Prepared:	06/03/2019	0952			

## DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
-------------	-----------	-------------

---

## Certification Information

---

### **The following analytes are Not Part of the ELAP scope of accreditation:**

Sulfur, Tungsten, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, 1,2,4,5-Tetramethylbenzene, 4-Ethyl toluene, p-Diethylbenzene, Iron Bacteria, Salmonella, Sulfur Reducing Bacteria, & UOD (Ultimate Oxygen Demand).

### **The following analytes are Not Part of ELAP Potable Water scope of accreditation:**

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), o-Xylene (502.2, 524), Sulfide (SM4500SD), Acenaphthene (525.2), Acenaphthylene (525.2), Fluoranthene (525.2), Fluorene (525.2), Phenanthrene (525.2), Anthracene (525.2), Pyrene (525.2), Benzo[a]anthracene (525.2), Benzo[b]fluoranthene (525.2), Benzo[g,h,i]perylene (525.2), Benzo[k]fluoranthene (525.2), Indeno[1,2,3-cd]pyrene (525.2), & Dibenz(a,h)anthracene (525.2).

### **The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:**

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

### **The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:**

Dissolved Organic Carbon (5310C), Mecoprop (8151A), MCPA (8151A), Propylene Glycol (8015D).

## Definitions and Glossary

---

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

# QUALITY CONTROL RESULTS

## Quality Control Results

Client: Pace Analytical Melville

Job Number: 420-154463-1

Sdg Number: 7090528

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Prep Batch: 420-132161</b>					
LCS 420-132161/3-A	Lab Control Spike	T	Water	Distill/Phenol	
LCS 420-132161/53-A	Lab Control Spike	T	Water	Distill/Phenol	
MB 420-132161/2-A	Method Blank	T	Water	Distill/Phenol	
MB 420-132161/27-A	Method Blank	T	Water	Distill/Phenol	
420-154463-1	OBS-1_5/22/19	T	Water	Distill/Phenol	
420-154463-1DU	Duplicate	T	Water	Distill/Phenol	
420-154463-1MS	Matrix Spike	T	Water	Distill/Phenol	
420-154463-2	MW-09B_05/22/19	T	Water	Distill/Phenol	
420-154463-3	MW-09C_05/22/19	T	Water	Distill/Phenol	
420-154463-4	BLIND DUPLICATE_05/22/19	T	Water	Distill/Phenol	
420-154463-5	MW-05B_5/22/19	T	Water	Distill/Phenol	
420-154463-6	MW-08B_5/22/19	T	Water	Distill/Phenol	
420-154463-7	MW-08A_5/22/19	T	Water	Distill/Phenol	
420-154463-8	LF-2_05/23/19	T	Water	Distill/Phenol	
420-154463-9	MW-06F_5/23/19	T	Water	Distill/Phenol	
420-154463-10	MW-06C_5/23/19	T	Water	Distill/Phenol	
420-154463-11	MW-06B_5/23/19	T	Water	Distill/Phenol	
420-154463-12	MW-06E_5/23/19	T	Water	Distill/Phenol	
420-154463-13	MW-06A_5/23/19	T	Water	Distill/Phenol	
420-154463-14	LF-1_5/24/19	T	Water	Distill/Phenol	
420-154463-15	FIELD BLANK_5/24/19	T	Water	Distill/Phenol	
420-154464-A-3-B DU	Duplicate	T	Water	Distill/Phenol	

## Quality Control Results

Client: Pace Analytical Melville

Job Number: 420-154463-1

Sdg Number: 7090528

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:420-132191</b>					
LCS 420-132161/3-A	Lab Control Spike	T	Water	420.4 Rev. 1.0	420-132161
LCS 420-132161/53-A	Lab Control Spike	T	Water	420.4 Rev. 1.0	420-132161
MB 420-132161/2-A	Method Blank	T	Water	420.4 Rev. 1.0	420-132161
MB 420-132161/27-A	Method Blank	T	Water	420.4 Rev. 1.0	420-132161
420-154463-1	OBS-1_5/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-1DU	Duplicate	T	Water	420.4 Rev. 1.0	420-132161
420-154463-1MS	Matrix Spike	T	Water	420.4 Rev. 1.0	420-132161
420-154463-2	MW-09B_05/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-3	MW-09C_05/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-4	BLIND DUPLICATE_05/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-5	MW-05B_5/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-6	MW-08B_5/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-7	MW-08A_5/22/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-8	LF-2_05/23/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-9	MW-06F_5/23/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-10	MW-06C_5/23/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-11	MW-06B_5/23/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-12	MW-06E_5/23/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-13	MW-06A_5/23/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-14	LF-1_5/24/19	T	Water	420.4 Rev. 1.0	420-132161
420-154463-15	FIELD BLANK_5/24/19	T	Water	420.4 Rev. 1.0	420-132161
420-154464-A-3-B DU	Duplicate	T	Water	420.4 Rev. 1.0	420-132161

**Report Basis**

T = Total





## Quality Control Results

Client: Pace Analytical Mellville

Job Number: 420-154463-1  
Sdg Number: 7090528

### Method Blank - Batch: 420-132161

Lab Sample ID: MB 420-132161/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1433  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

### Method: 420.4 Rev. 1.0 Preparation: Distill/Phenol

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Result	Qual	RL	RL
Phenolics, Total Recoverable	<0.010		0.010	0.010

### Method Blank - Batch: 420-132161

Lab Sample ID: MB 420-132161/27-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1500  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

### Method: 420.4 Rev. 1.0 Preparation: Distill/Phenol

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Result	Qual	RL	RL
Phenolics, Total Recoverable	<0.010		0.010	0.010

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Pace Analytical Melville

Job Number: 420-154463-1  
Sdg Number: 7090528

**Lab Control Spike - Batch: 420-132161**

**Method: 420.4 Rev. 1.0**  
**Preparation: Distill/Phenol**

Lab Sample ID: LCS 420-132161/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1433  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenolics, Total Recoverable	0.0500	0.061	121	57 - 123	

**Lab Control Spike - Batch: 420-132161**

**Method: 420.4 Rev. 1.0**  
**Preparation: Distill/Phenol**

Lab Sample ID: LCS 420-132161/53-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1459  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenolics, Total Recoverable	0.0500	0.060	119	57 - 123	

**Matrix Spike - Batch: 420-132161**

**Method: 420.4 Rev. 1.0**  
**Preparation: Distill/Phenol**

Lab Sample ID: 420-154463-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1453  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Phenolics, Total Recoverable	<0.010	0.0300	0.032	106	55 - 136	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Pace Analytical Mellville

Job Number: 420-154463-1  
Sdg Number: 7090528

### Duplicate - Batch: 420-132161

Lab Sample ID: 420-154463-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1444  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

### Method: 420.4 Rev. 1.0 Preparation: Distill/Phenol

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Phenolics, Total Recoverable	<0.010	-0.00036	NC	15	

### Duplicate - Batch: 420-132161

Lab Sample ID: 420-154464-A-3-B DU  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/03/2019 1512  
Date Prepared: 06/03/2019 0952

Analysis Batch: 420-132191  
Prep Batch: 420-132161  
Units: mg/L

### Method: 420.4 Rev. 1.0 Preparation: Distill/Phenol

Instrument ID: Lachat Quikchem 8500 FIA  
Lab File ID: OM\_6-3-2019\_02-29-12PM.O  
Initial Weight/Volume: mL  
Final Weight/Volume: mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Phenolics, Total Recoverable	<0.010	0.0085	NC	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.



154463 p3 2 of 2

					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1	<i>[Signature]</i>	5/30/19 1400			
2			<del><i>[Signature]</i></del>	5/31/19 0950	
3					
Cooler Temperature on Receipt 6.9 °C		Custody Seal Y or N		Received on Ice (Y) or N	Samples Intact (Y) or N

Fed Ex Priority Overnight  
Express Tracking #  
1024 9095 0758

pH ✓ DONE IN LAB

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Pace Analytical Mellville

Job Number: 420-154463-1

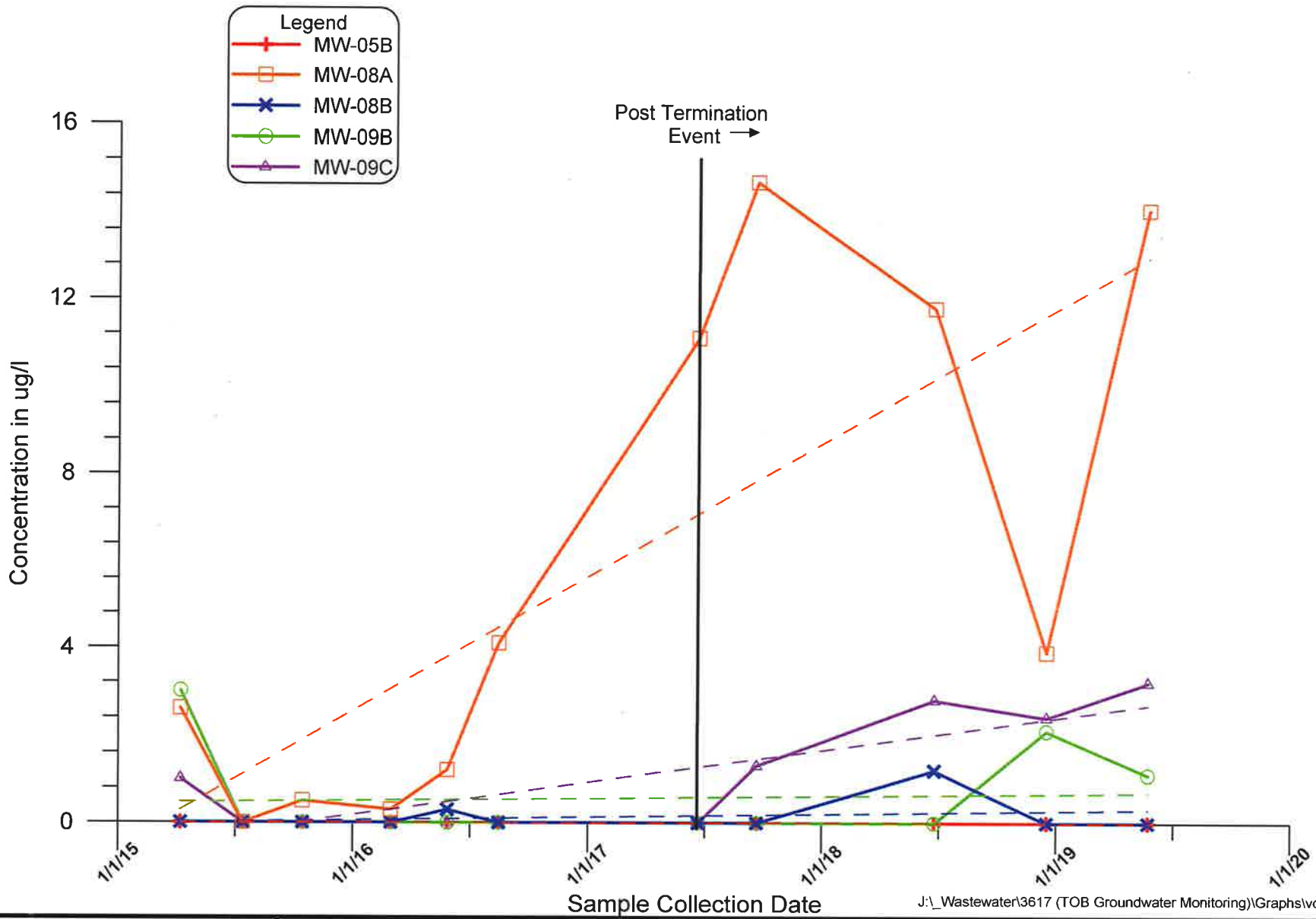
SDG Number: 7090528

**Login Number: 154463**

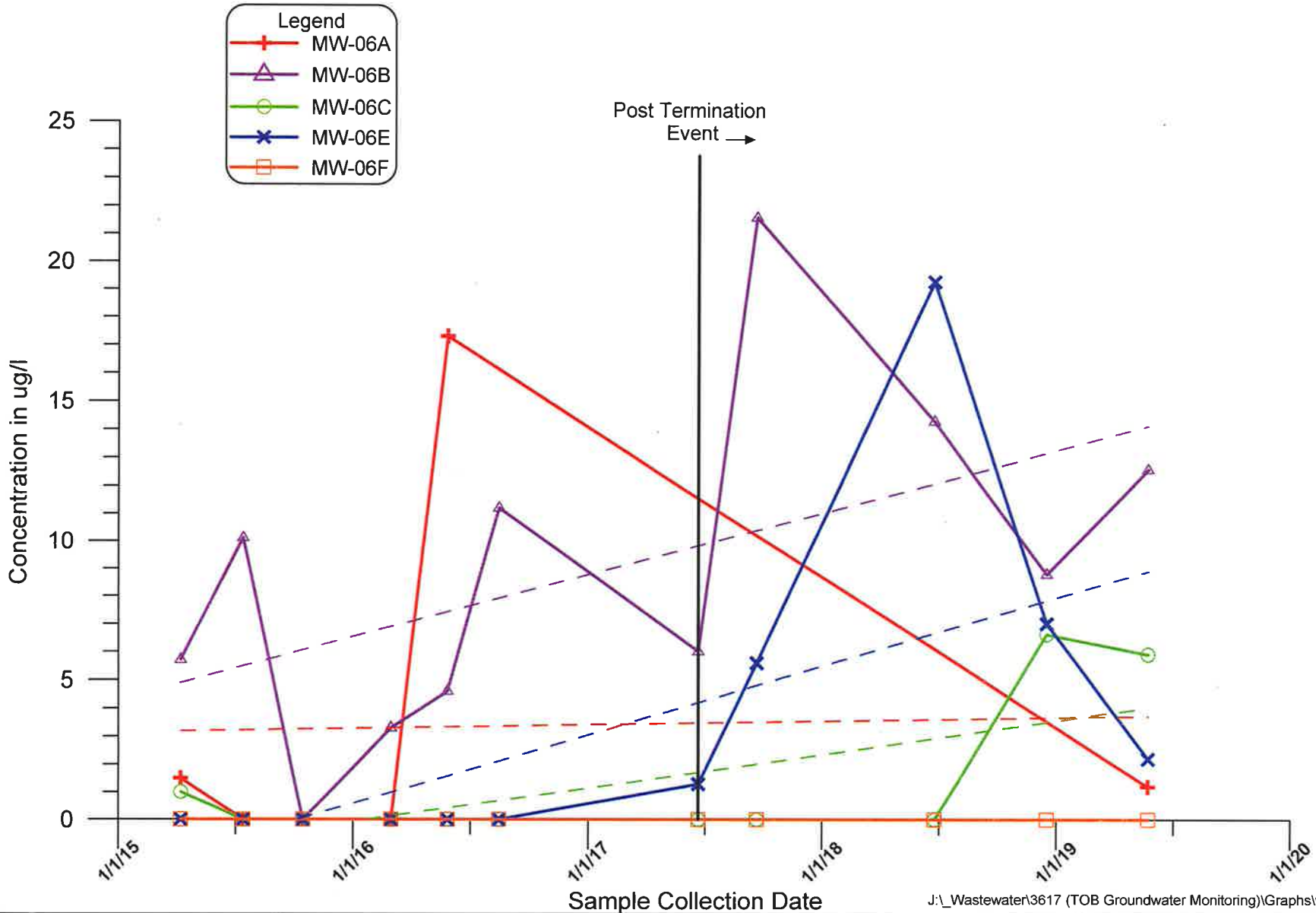
Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	6.9 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
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.	NA	
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	

**APPENDIX E**

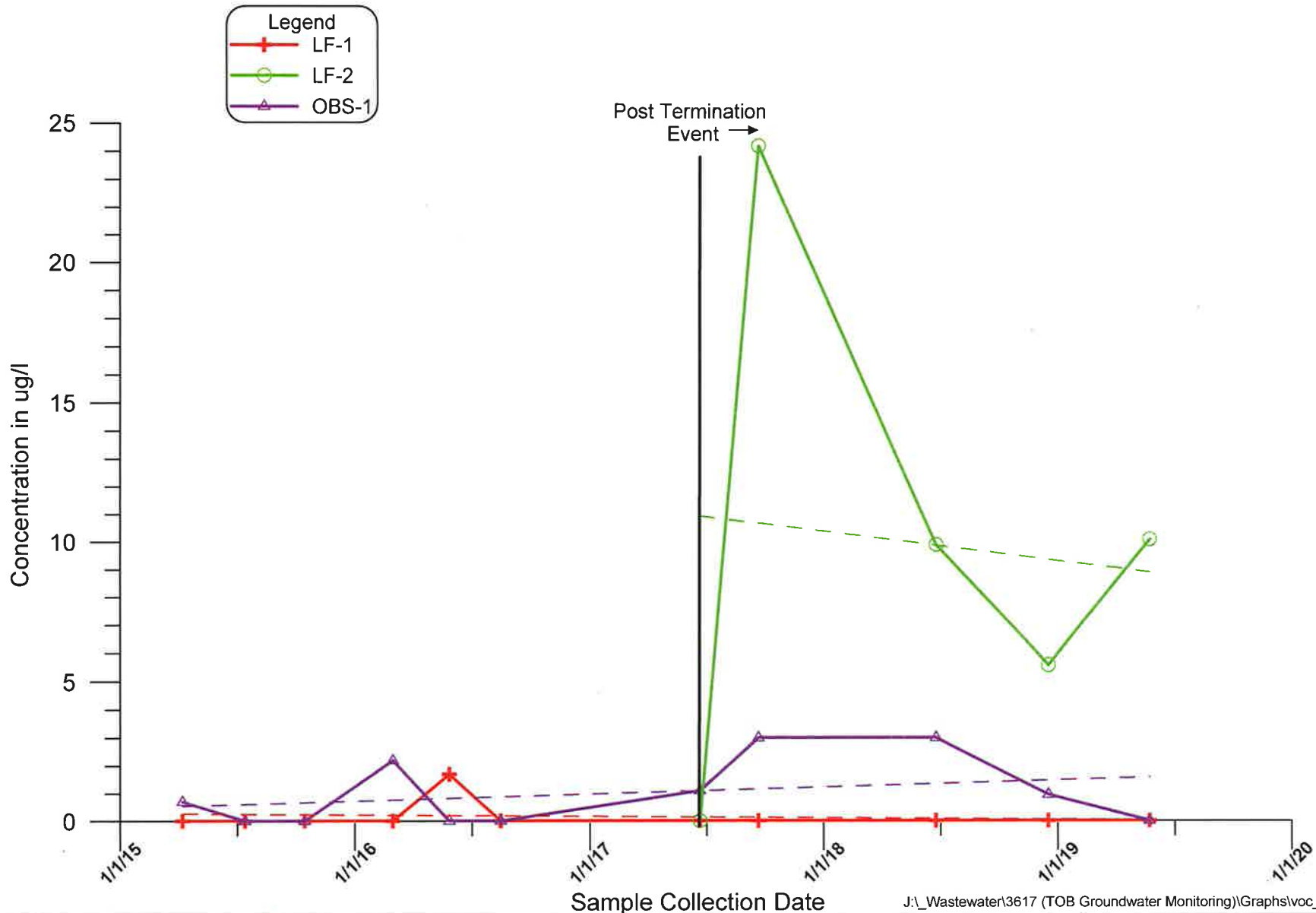
**POST-TERMINATION HISTORICAL  
GROUNDWATER TREND GRAPHS**

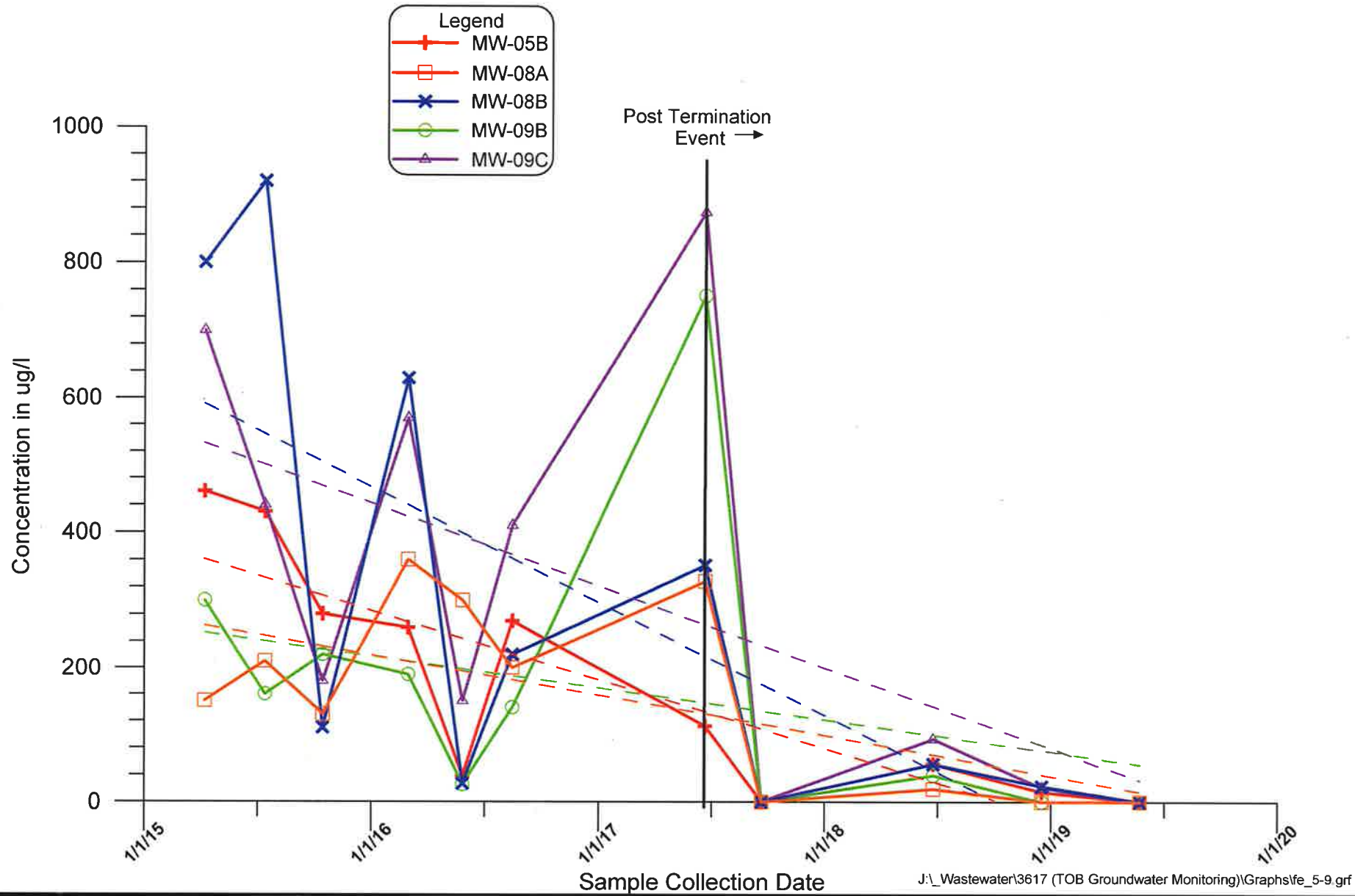




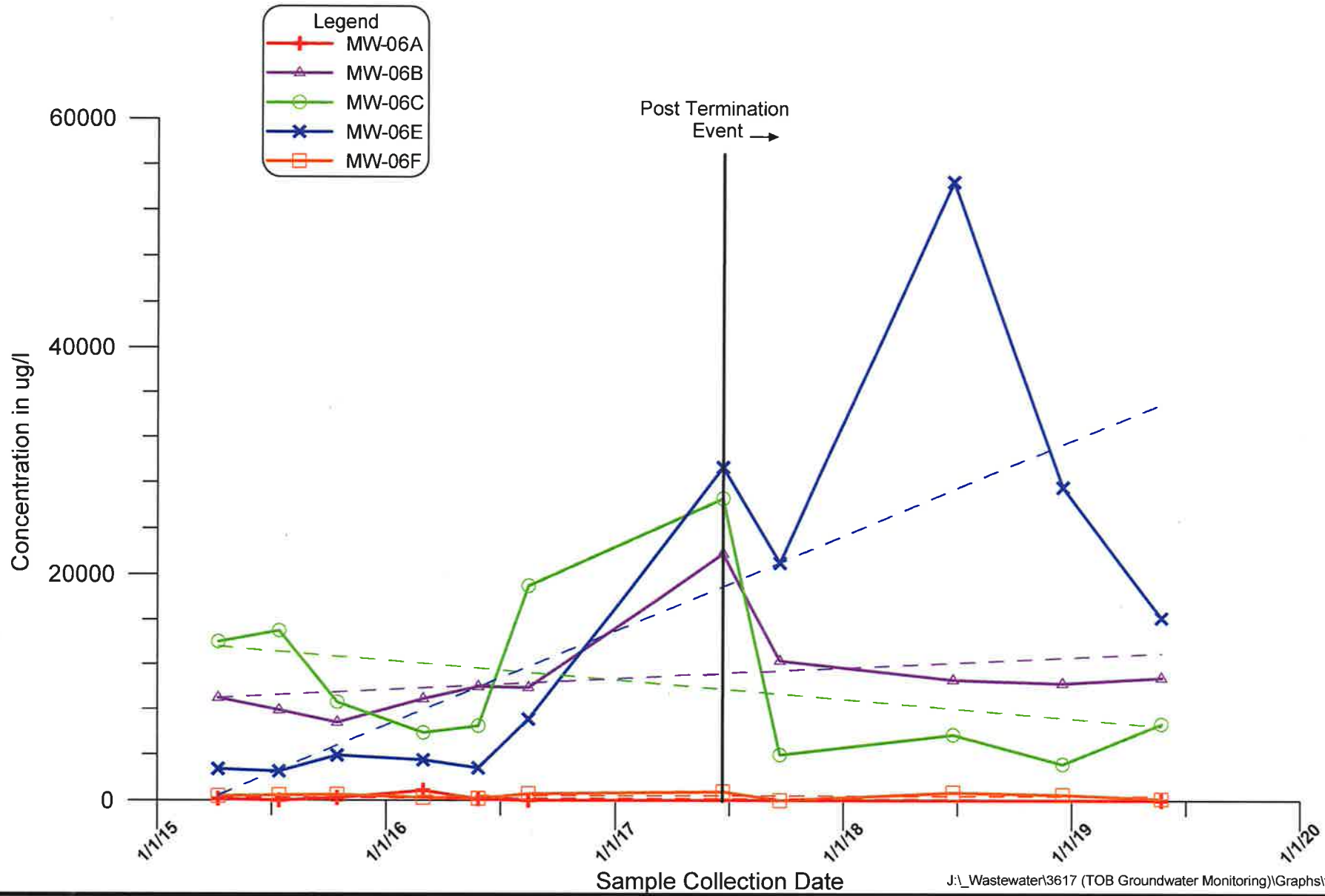


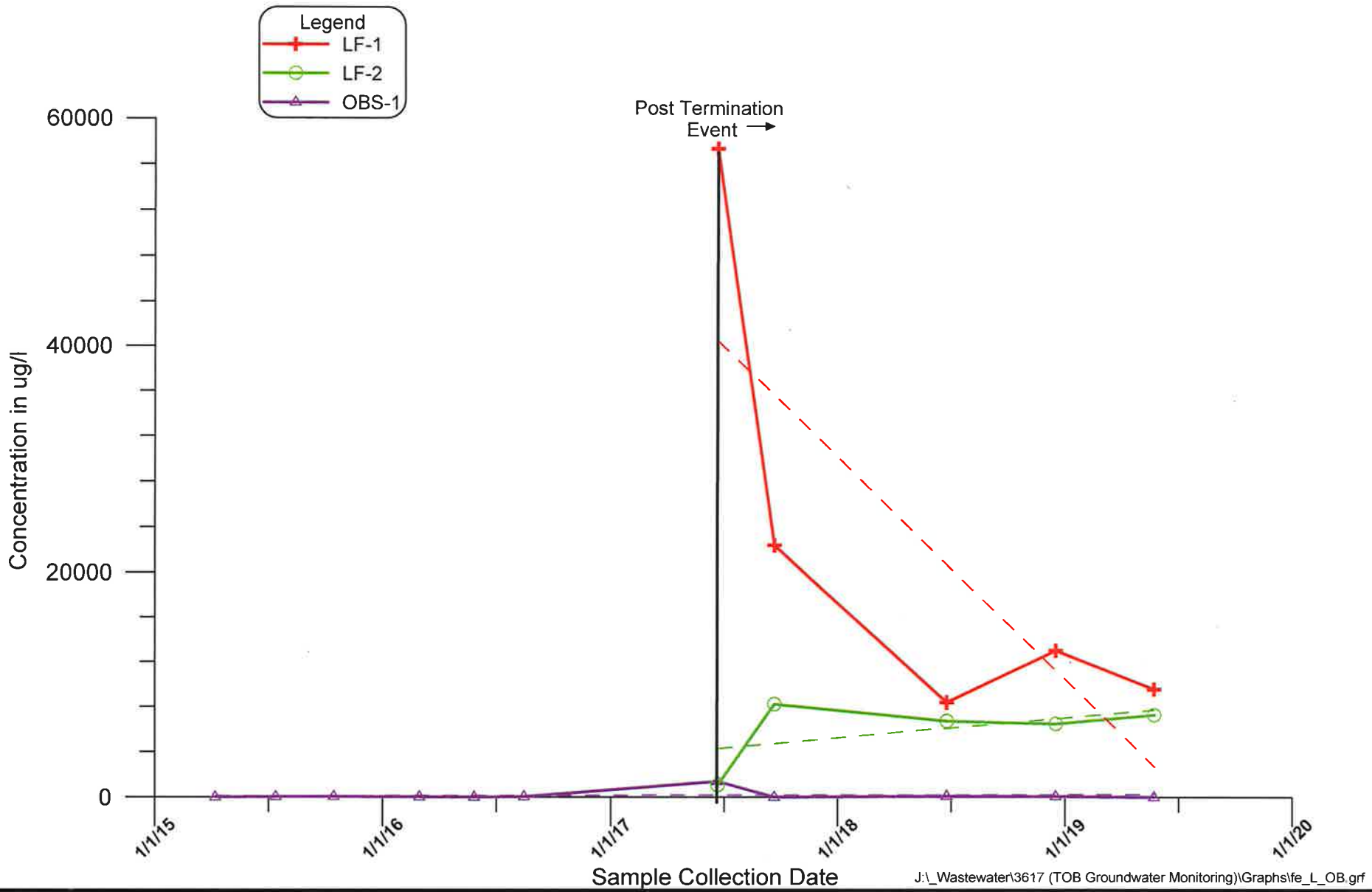
J:\\_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\voc\_6.grf



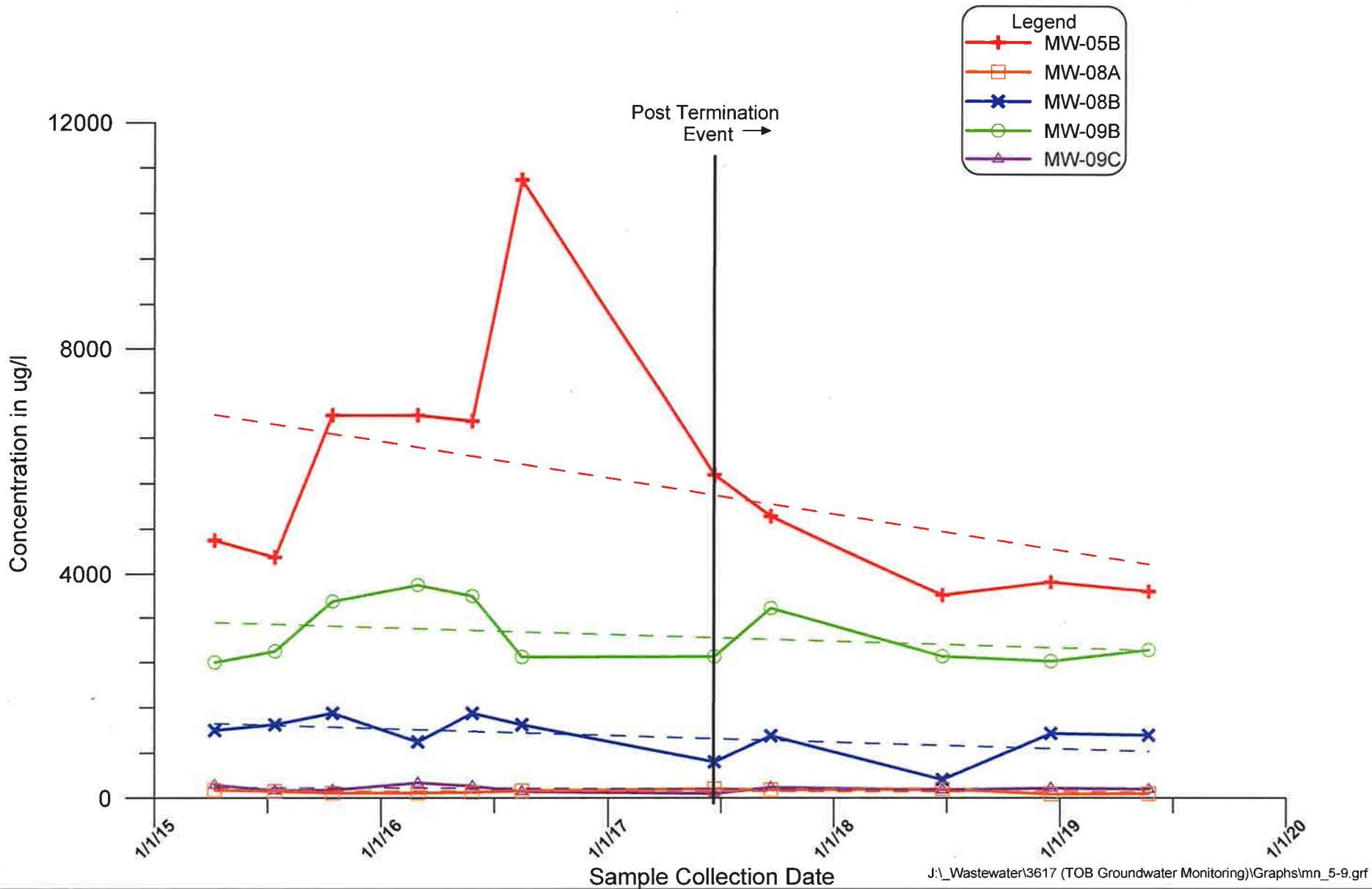


J:\\_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\fe\_5-9.grf

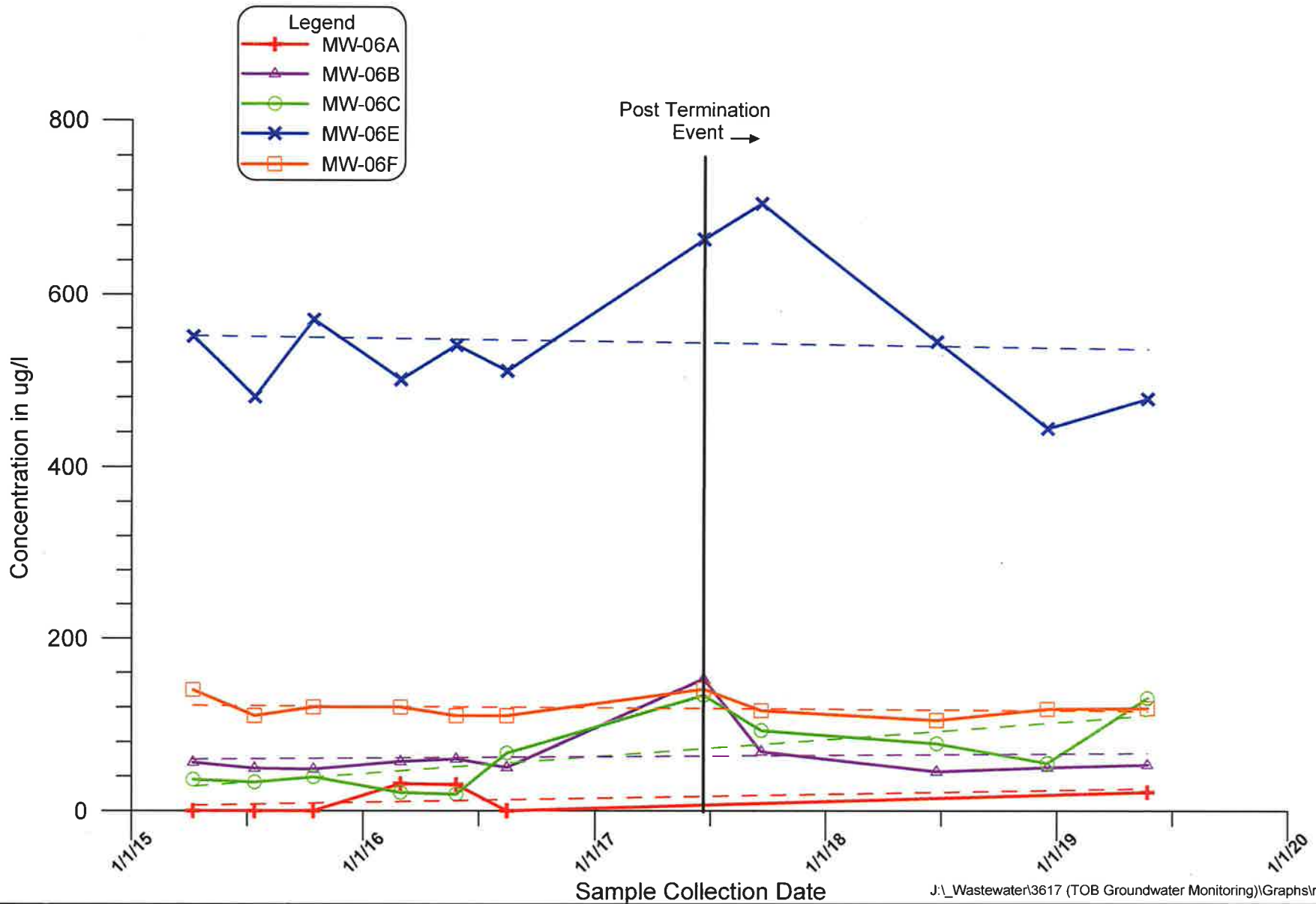




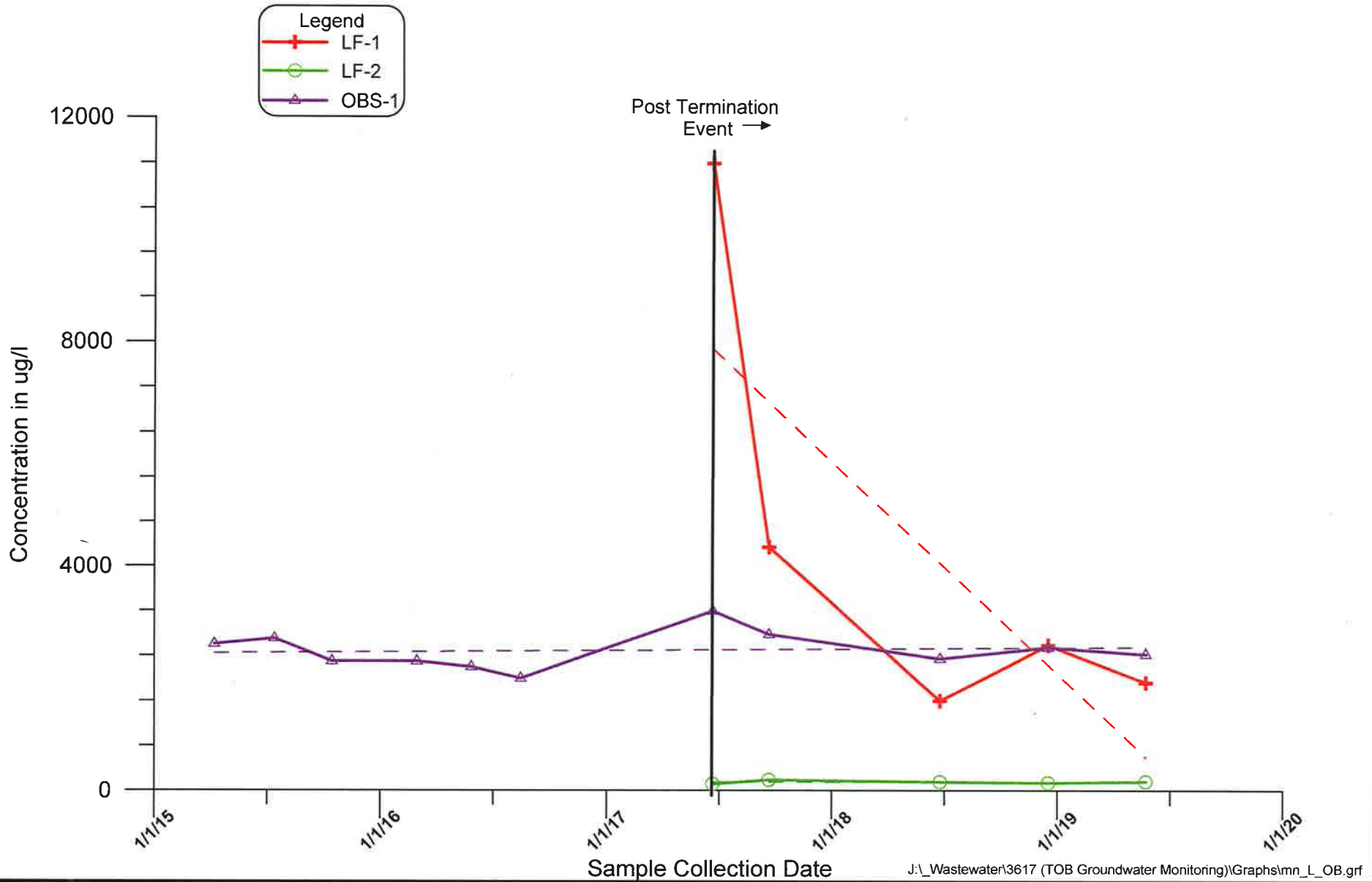
J:\\_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\fe\_L\_OB.grf





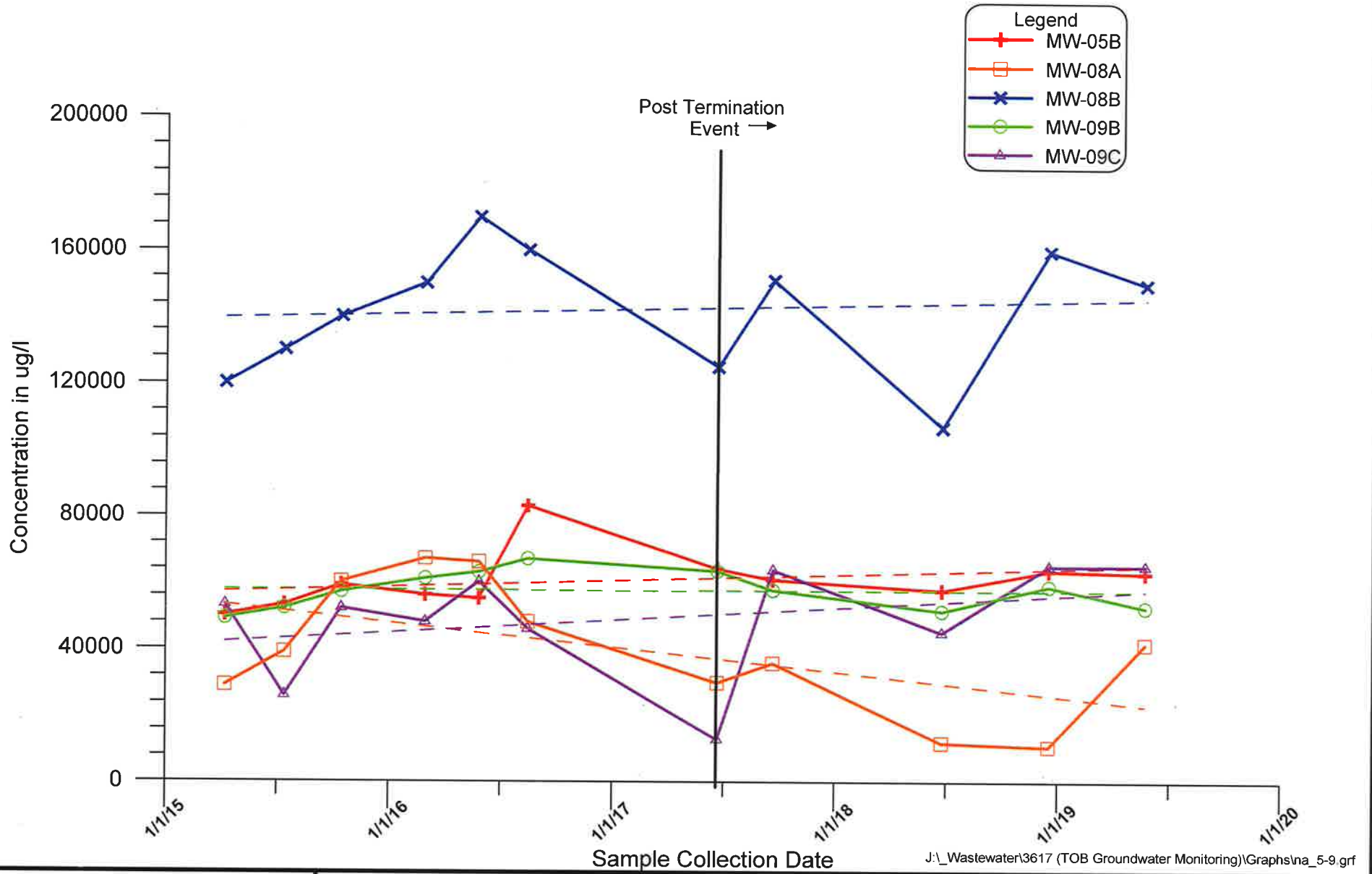


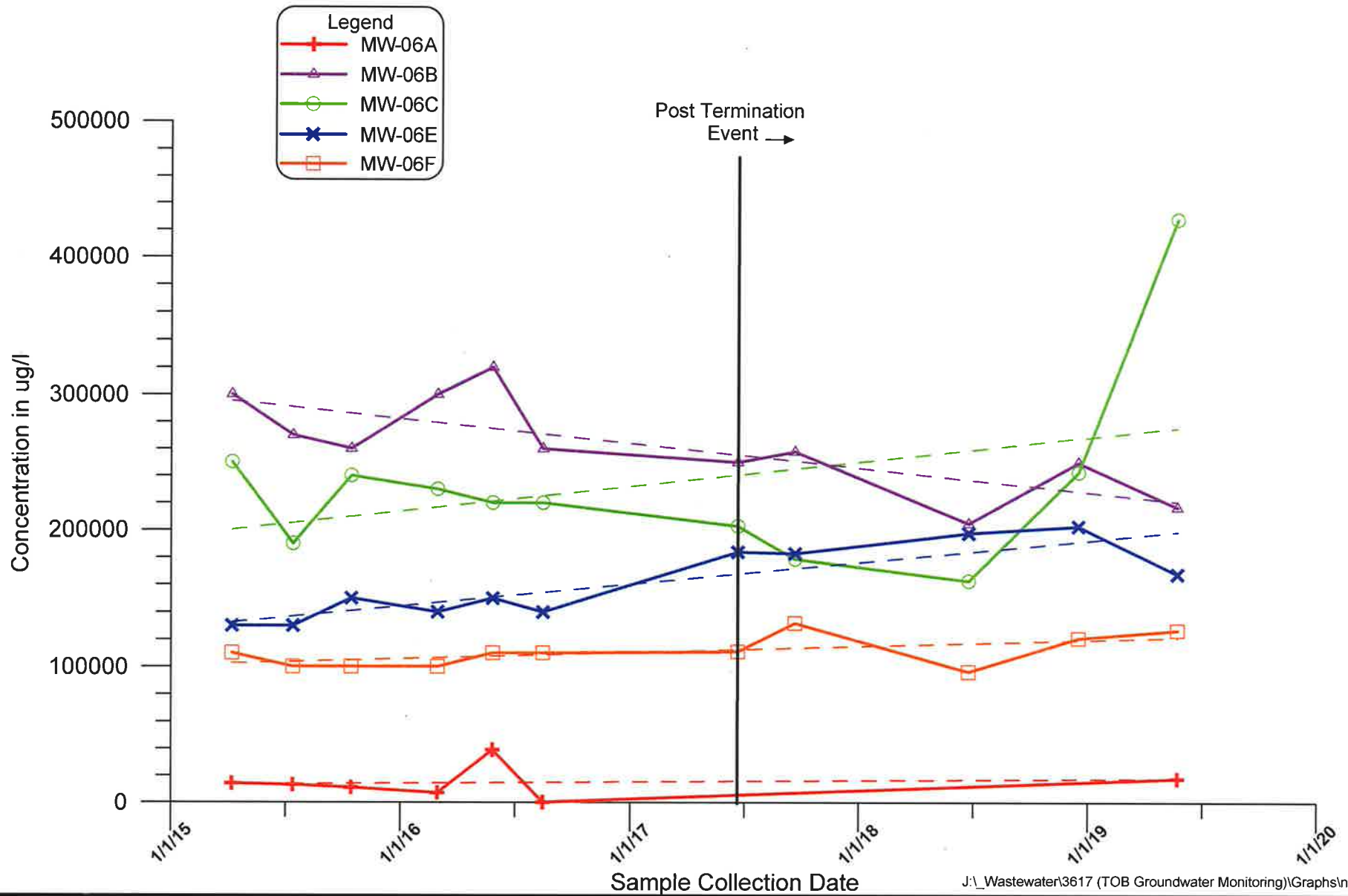
J:\\_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\mn\_6.grf

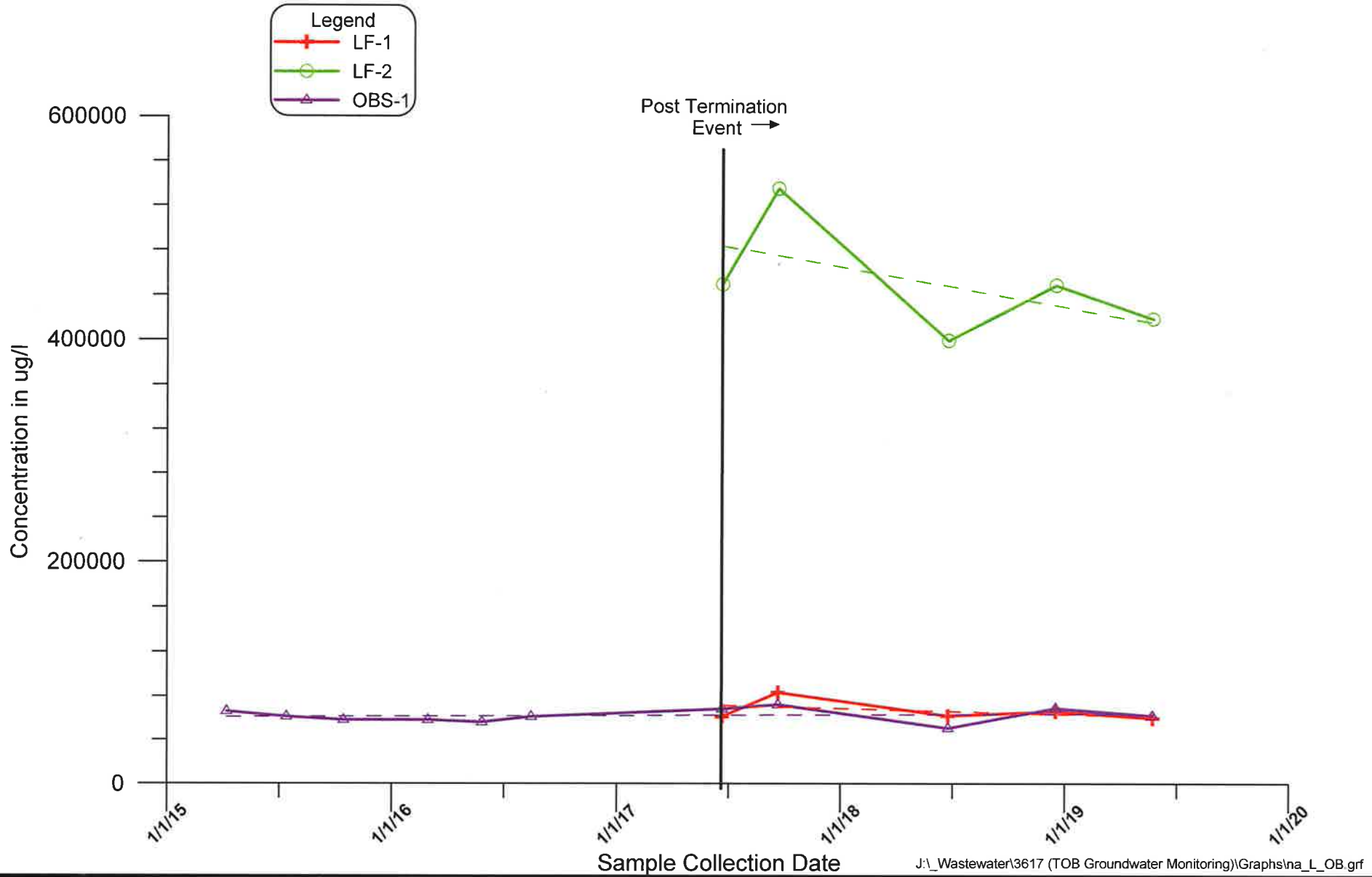


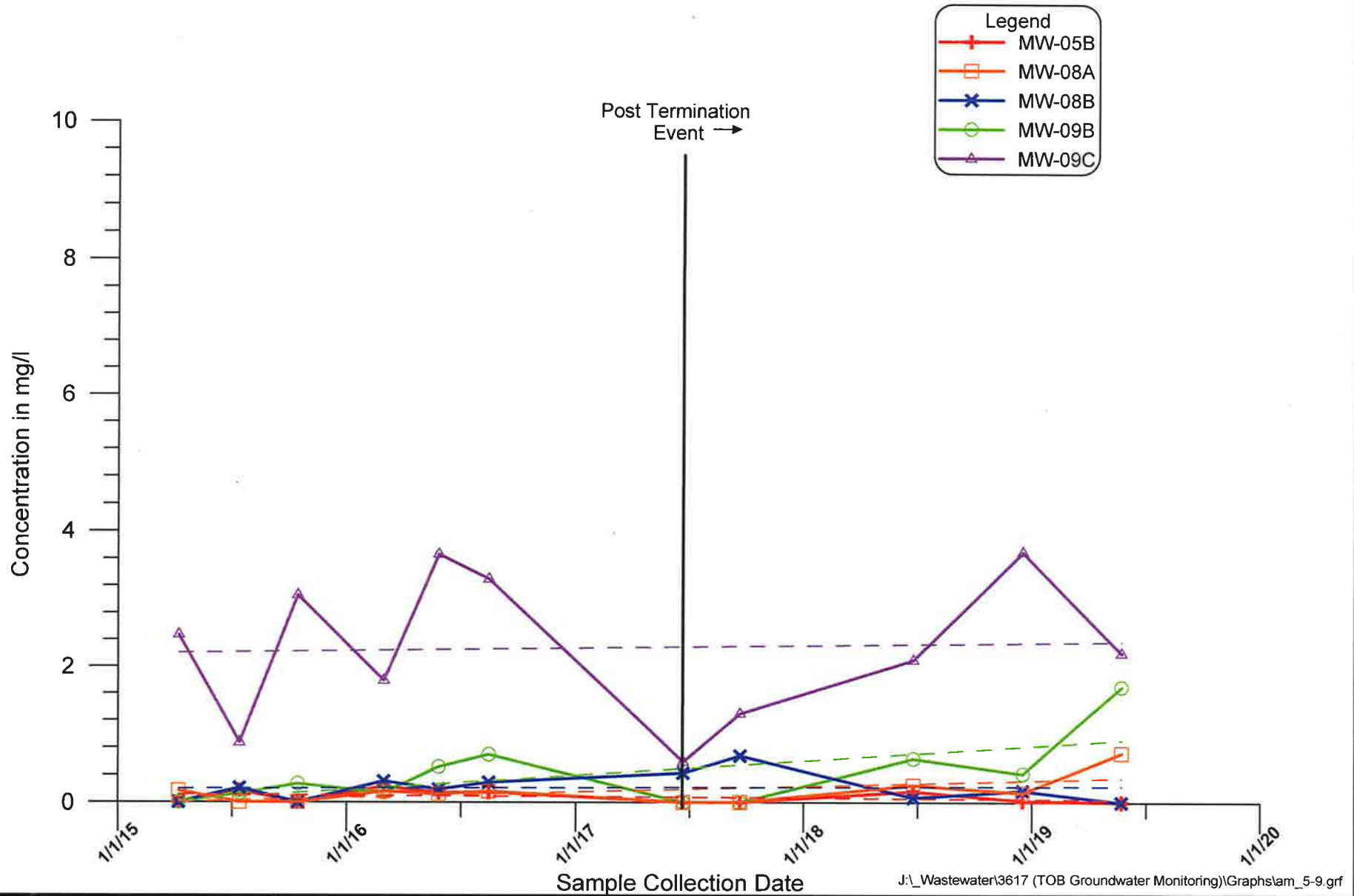
J:\\_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\mn\_L\_OB.grf

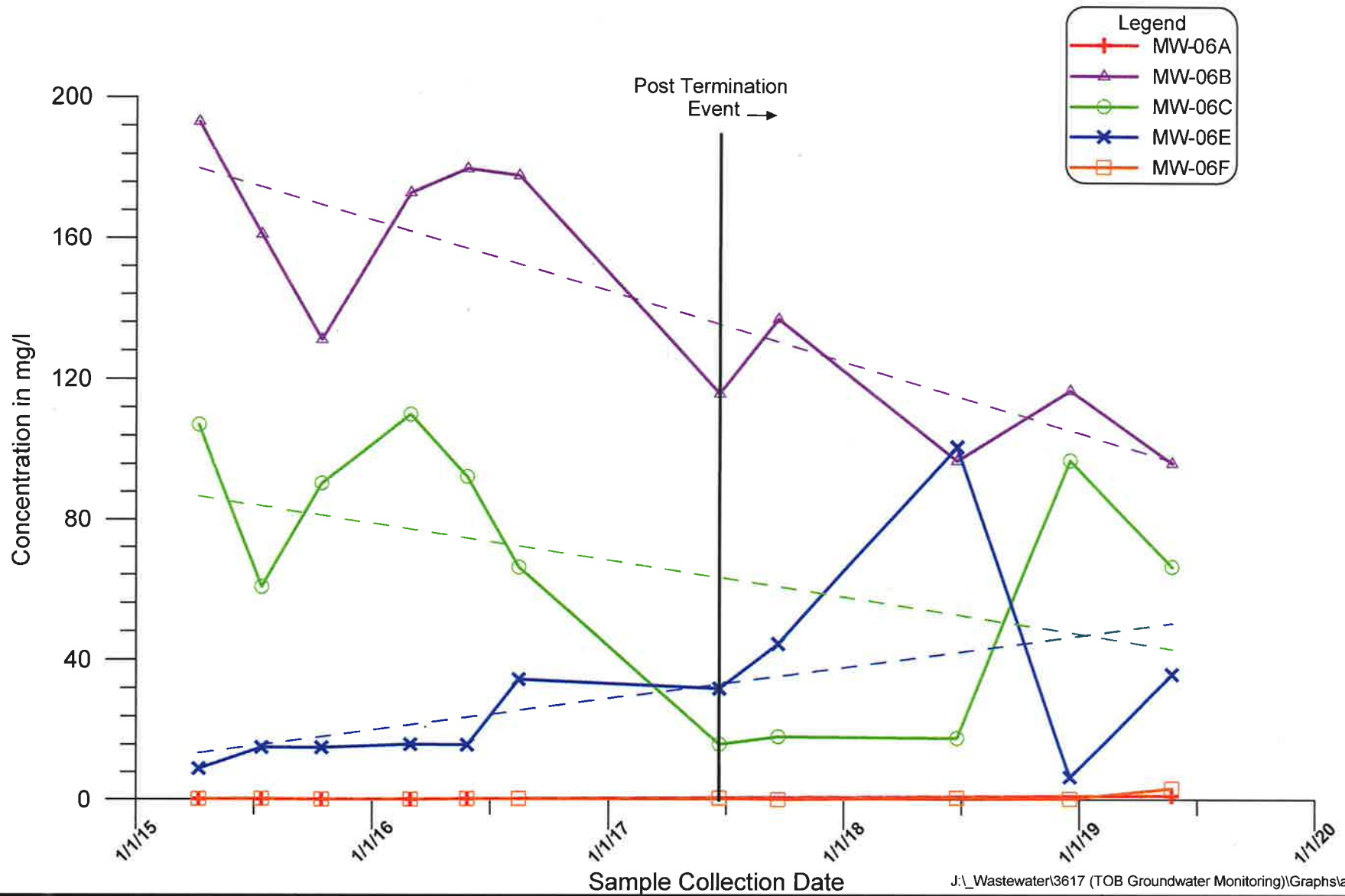


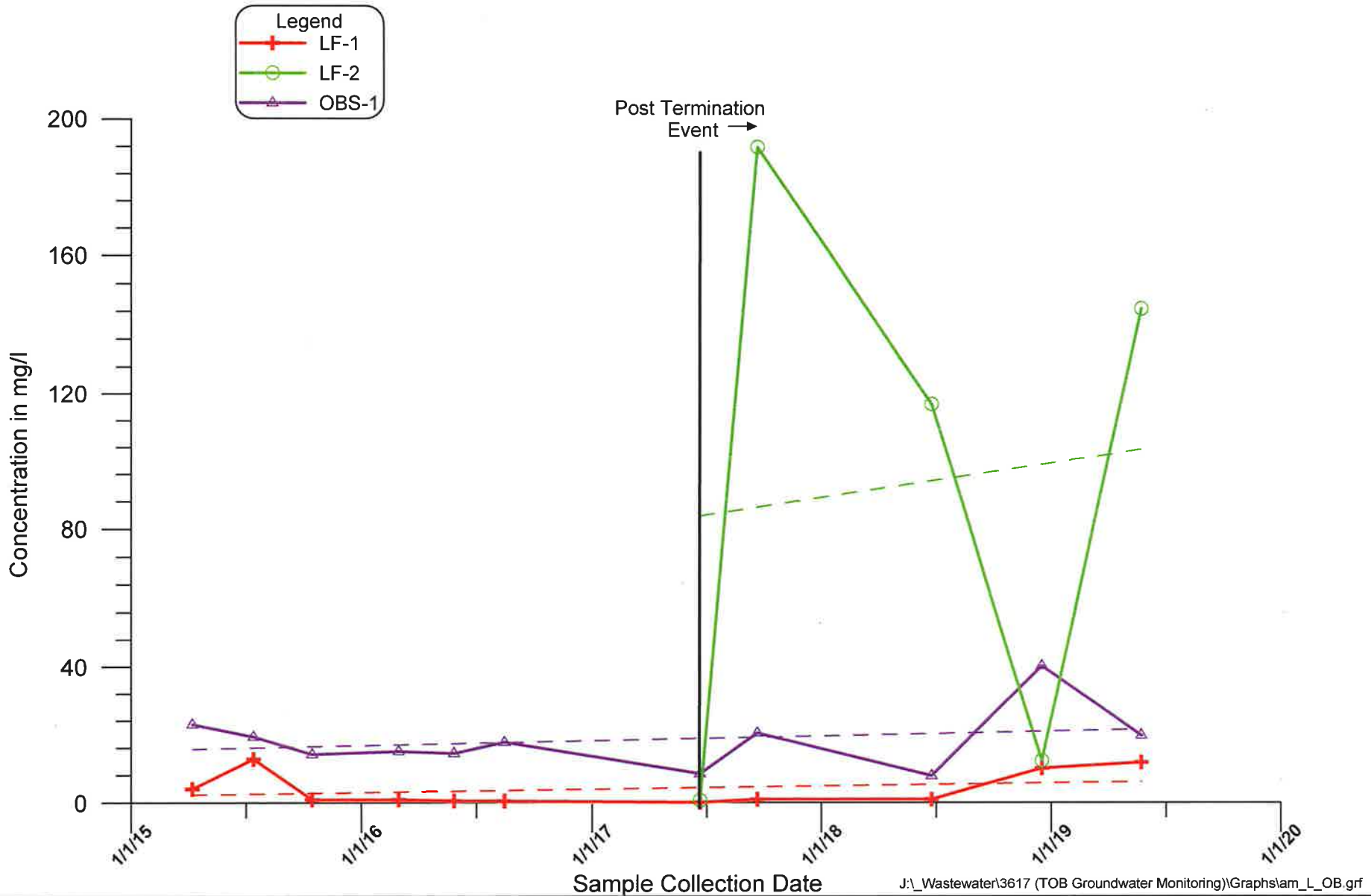










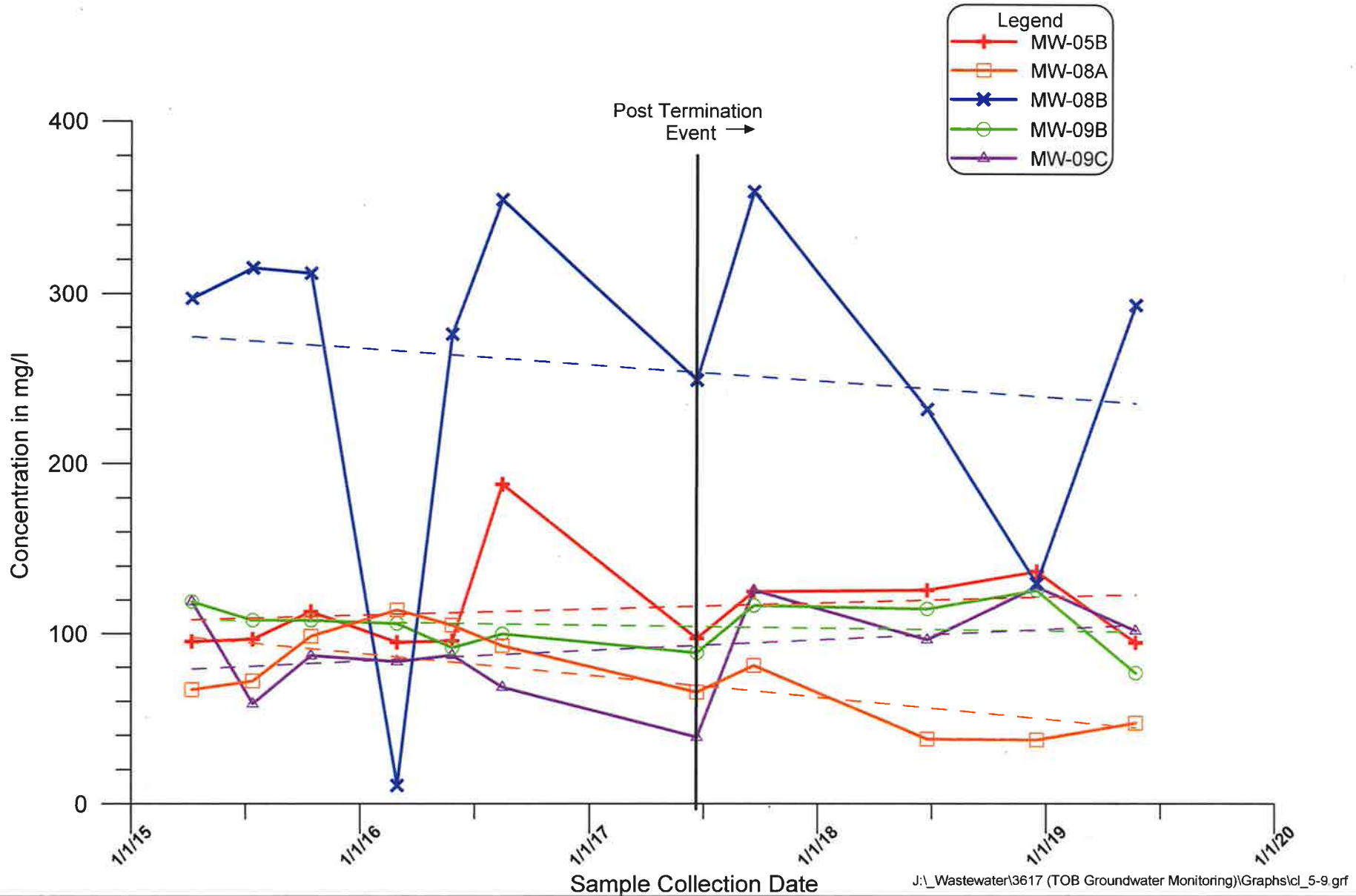


D&B ENGINEERS  
AND  
ARCHITECTS, P.C.

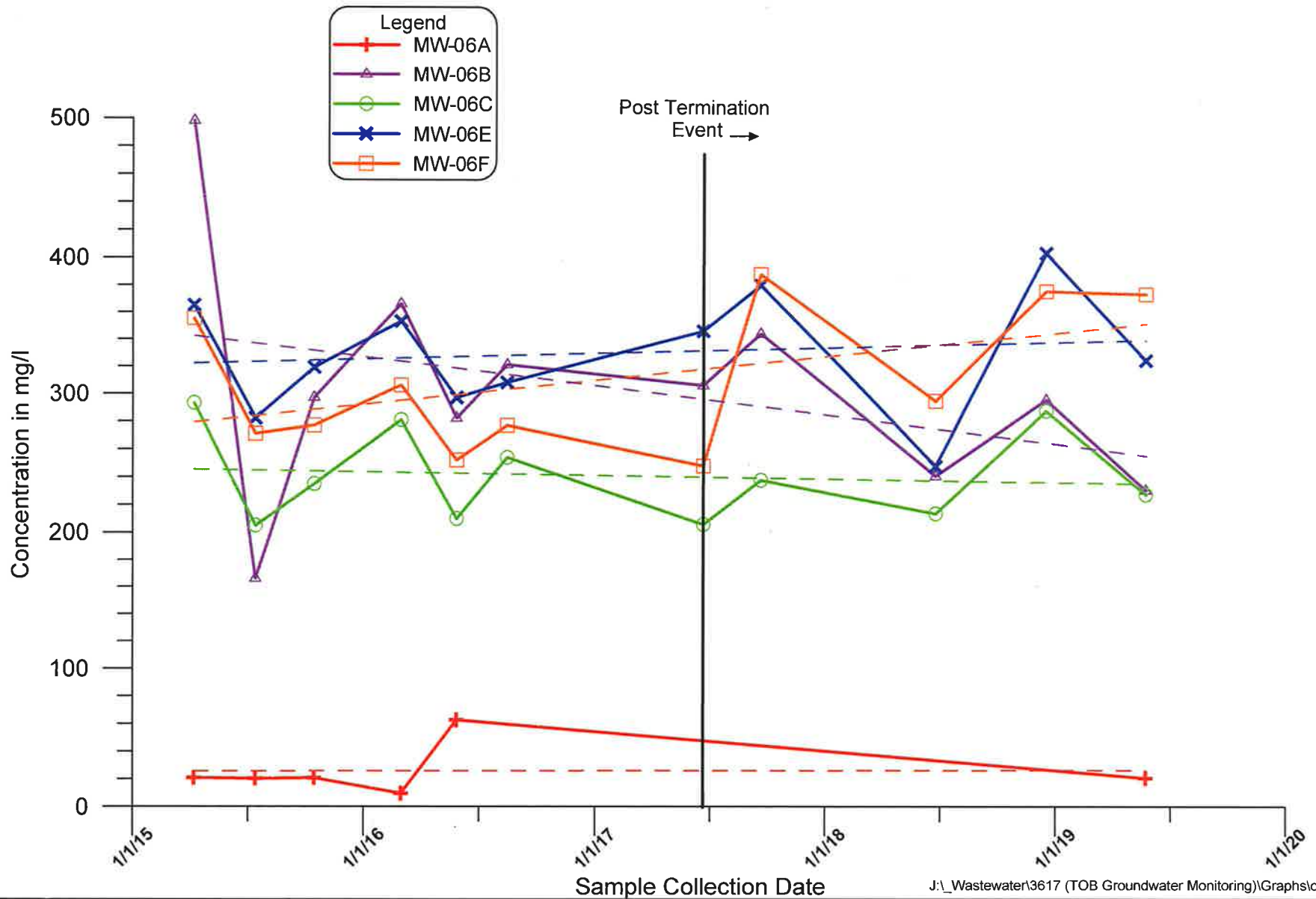
Town of Oyster Bay  
Old Bethpage Landfill  
Historical Ammonia  
Data for Wells LF-1, LF-2 & OBS-1

Figure  
E



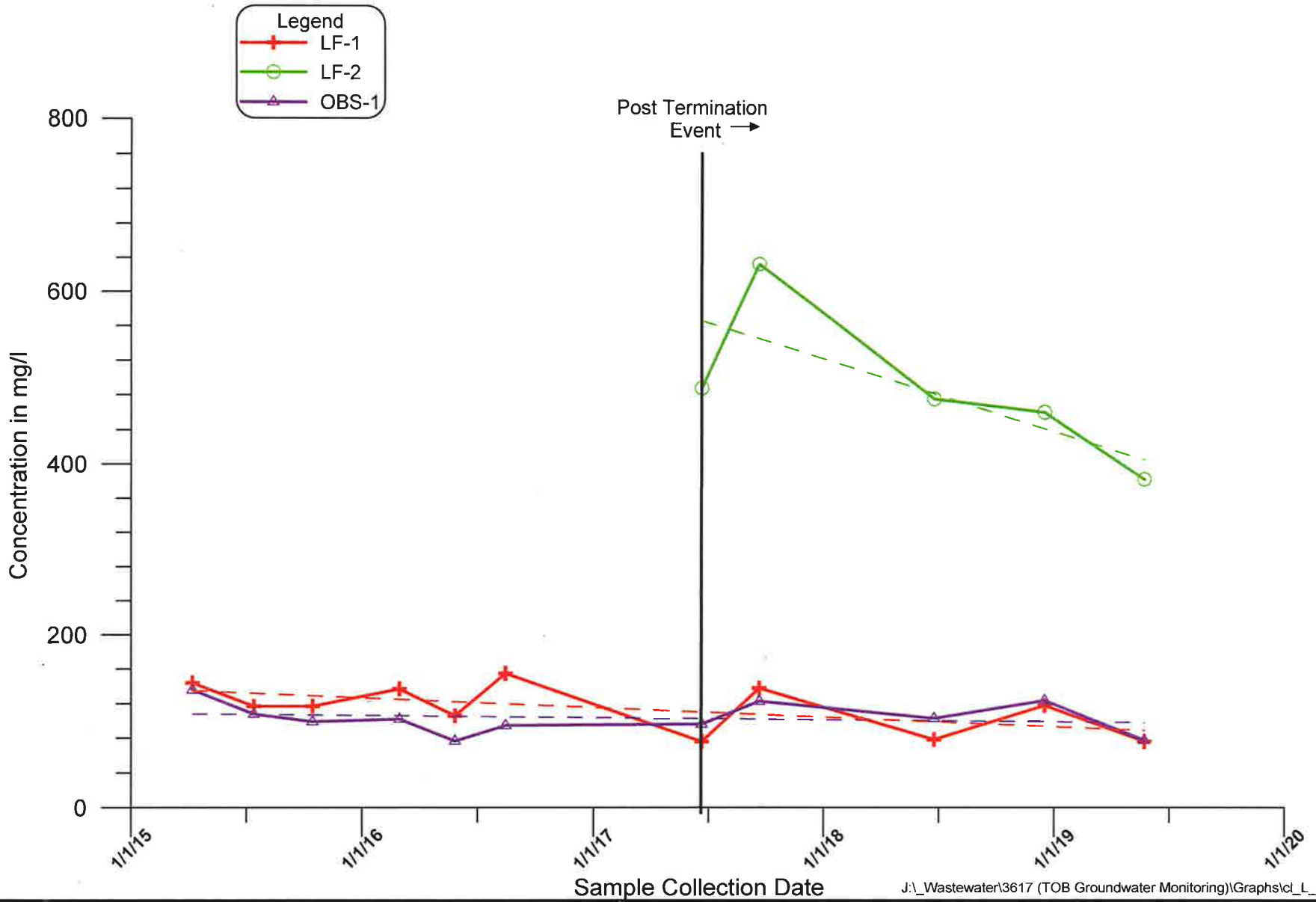


J:\\_Wastewater3617 (TOB Groundwater Monitoring)\Graphs\cl\_5-9.grf



J:\\_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\cl\_6.grf

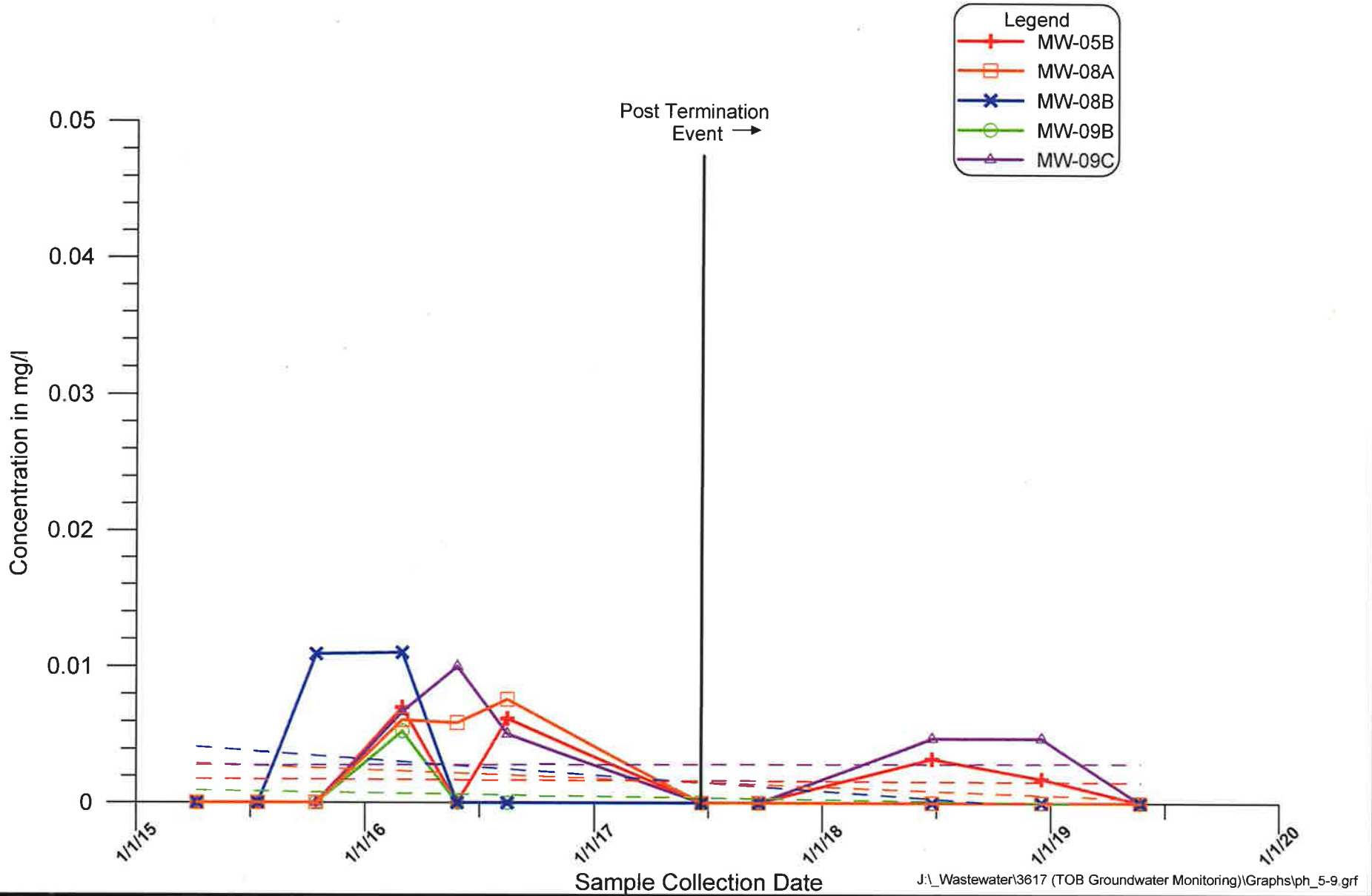


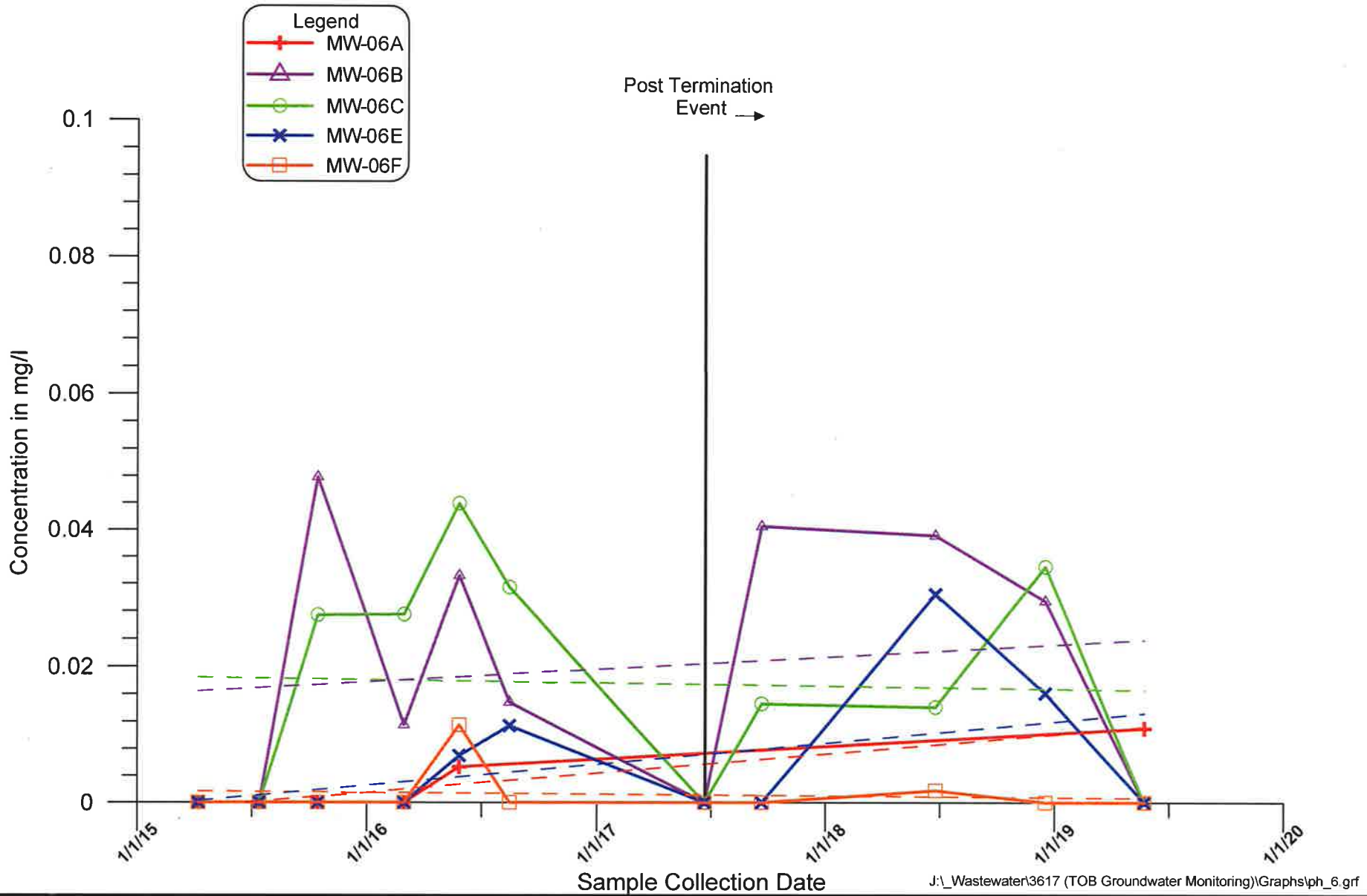


D&B ENGINEERS  
AND  
ARCHITECTS, P.C.

**Town of Oyster Bay  
Old Bethpage Landfill  
Historical Chloride  
Data for Wells LF-1, LF-2 & OBS-1**

**Figure  
E**





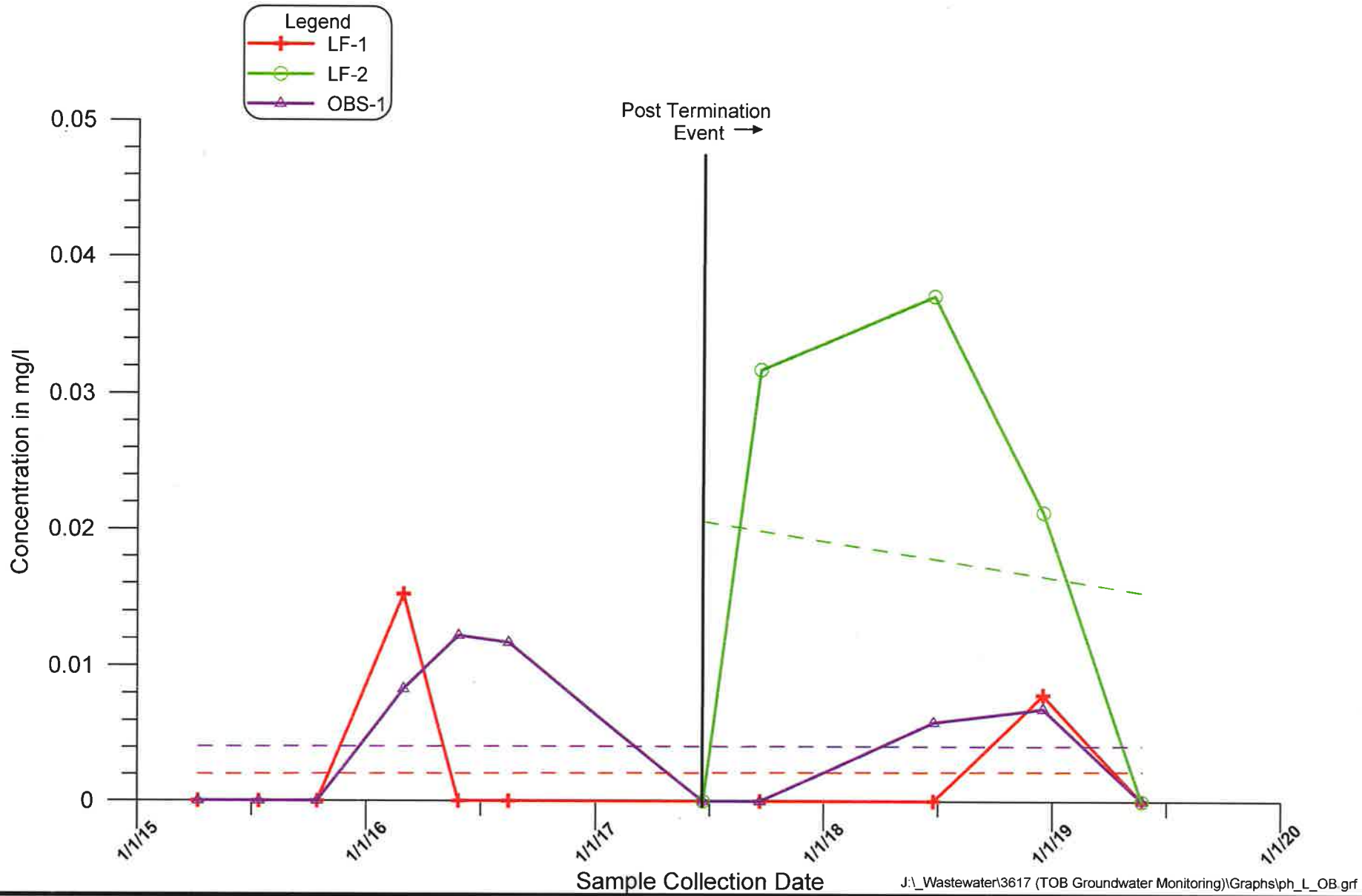
J:\\_Wastewater3617 (TOB Groundwater Monitoring)\Graphs\ph\_6.grf



D&B ENGINEERS  
AND  
ARCHITECTS, P.C.

**Town of Oyster Bay  
Old Bethpage Landfill  
Historical Phenolis  
Data for Monitoring Well Cluster 6**

**Figure  
E**



**APPENDIX F**

**PREVIOUSLY COLLECTED POST-TERMINATION  
GROUNDWATER MONITORING DATA**

Table 1  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Volatile Organic Compounds

Sample ID	Sample Date	LF-1	LF-2	MW-5B	MW-6B	MW-6C	MW-6E	MW-6F	MW-8A	MW-8B	MW-9B	MW-9C	OBS-1
Units in ug/l		06/22/2017	06/20/2017	06/20/2017	06/21/2017	06/21/2017	06/21/2017	06/21/2017	06/22/2017	06/22/2017	06/20/2017	06/20/2017	06/20/2017
	NYSDEC Class GA Standard or Guidance Value												
<b>VOLATILE COMPOUNDS</b>													
1,1,1-Trichloroethane	5	1 U	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	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,1-Dichloroethene	5	1 U	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	3	1 U	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	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 U
1,2-Dichloropropane	1	1 U	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	3	1 U	1 U	1 U	1.1 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1.1 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	0.71 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1.9 J	1 U	1.3	1 U	1 U	1 U	1 U	1 U	1.1
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	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-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.8	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1.2 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.6	1 U	1 U	1 U	1 U
Toluene	5	1 U	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	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.7	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
<b>Total Volatile Compounds</b>	--	ND	ND	ND	6.01	ND	1.3	ND	11.1	ND	ND	ND	1.1

Footnotes/Qualifiers:

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

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

Note that well MW-06A was dry and could not be sampled





Table 2  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 06/22/2017 Total	LF-1 06/22/2017 Dissolved	LF-2 06/20/2017 Total	LF-2 06/20/2017 Dissolved	MW-5B 06/20/2017 Total	MW-5B 06/20/2017 Dissolved	MW-6B 06/21/2017 Total	MW-6B 06/21/2017 Dissolved	MW-6C 06/21/2017 Total	MW-6C 06/21/2017 Dissolved	MW-6E 06/21/2017 Total	MW-6E 06/21/2017 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	112 J	200 U	195 J	48.8 J	200 U	200 U	437	200 U	41.7 J	200 U	39.4 J	200 U
Barium	1000	368	8.9 J	56.9 J	42.9 J	55.3 J	31.6 J	59 J	37.6 J	43.7 J	21.9 J	196 J	151 J
Calcium	--	28900 J	24200	28800	21400	14600	12300	17300	13800	42400	34800	33800	27700
Chromium	50	10 U	10 U	7.6 J	2.9 J	4.7 J	10 U	4.9 UB	10 U	10 U	10 U	10 U	10 U
Copper	200	41.4 J	2.8 J	90.1	71.7	25 U	25 U	23.7 J	11.5 J	4.8 J	25 U	4.9 J	25 U
Iron	300	<b>57400</b>	100 U	<b>1080</b>	23 J	112	100 U	<b>21800</b>	53.1 J	<b>26600</b>	100 U	<b>29300</b>	<b>610</b>
Lead	25	5 U	5 U	<b>370</b>	<b>32</b>	4 UB	5 U	24.1	1.3 J	3.8 UB	5 U	2.9 UB	5 U
Magnesium	35000	17600	15000	11400	10000	6870	5900	13300	11100	10300	8670	15400	12900
Manganese	300	<b>11200</b>	11.3 UB	120 J	40.7	<b>5760 J</b>	<b>5220</b>	153 J	48	134 J	77.2	<b>665 J</b>	<b>513</b>
Mercury	0.7	0.087 UB	0.067 UB	0.1 UB	0.2 U	0.097 UB	0.10 UB	0.038 UB	0.067 UB	0.047 UB	0.066 UB	0.18 UB	0.066 UB
Nickel	100	8.2 J	2.1 J	12.7 J	9.7 J	4.3 J	3.1 J	17.6 J	13.2 J	7.6 UB	6.3 J	15.3 J	10 J
Potassium	--	9820	7540	148000	122000	12600	10200	88800	74200	26100	22400	33800	29000
Sodium	20000	<b>61100</b>	<b>54500</b>	<b>450000</b>	<b>404000</b>	<b>64000</b>	<b>54900</b>	<b>250000</b>	<b>214000</b>	<b>203000</b>	<b>176000</b>	<b>184000</b>	<b>157000</b>
Zinc	2000	509	7.9 UB	147	53.9	7 UB	5.7 UB	43.1	17.1 J	29.1	11 J	50.1	11.1 J

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

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

Note that well MW-06A was dry and could not be sampled

Table 2  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-6F 06/21/2017 Total	MW-6F 06/21/2017 Dissolved	MW-8A 06/22/2017 Total	MW-8A 06/22/2017 Dissolved	MW-8B 06/22/2017 Total	MW-8B 06/22/2017 Dissolved	MW-9B 06/20/2017 Total	MW-9B 06/20/2017 Dissolved	MW-9C 06/20/2017 Total	MW-9C 06/20/2017 Dissolved	OBS-1 06/20/2017 Total	OBS-1 06/20/2017 Dissolved
Units in ug/l													
	NYSDEC Class GA Standard or Guidance Value												
<b>METALS</b>													
Aluminum	--	90.3 J	38.4 J	91 J	14 J	100 J	200 U	51 J	200 U	19.2 J	200 U	29.5 J	200 U
Barium	1000	201	172 J	69.5 J	62.2 J	109 J	92 J	94.4 J	88.2 J	36.2 J	30.9 J	91.1 J	73 J
Calcium	--	33700	27700	5940 J	5180	30200 J	27600	16500	13900	3760	3650	16900	16800
Chromium	50	3.3 UB	10 U	4.4 J	10 U	10.4	10 U	3.5 J	10 U	3.6 J	10 U	1.7 J	10 U
Copper	200	6.6 J	7.8 J	85.5 J	89.4	4.8 J	25 U	10.6 J	25 U	12.4 J	4.2 J	2.8 J	3.9 J
Iron	300	<b>756</b>	32.9 J	<b>328</b>	100 U	<b>352</b>	100 U	<b>752</b>	100 U	<b>875</b>	100 U	<b>1390</b>	100 U
Lead	25	7.1 UB	3 J	3.8 UB	4 J	7.7 UB	5 U	6.6 UB	5 U	8.1 UB	5 U	5.6 UB	5 U
Magnesium	35000	12400	10500	5850	5040	7770	6810	6100	5390	1900	2430	12000	12100
Manganese	300	141 J	120	162	155	<b>647</b>	<b>540</b>	<b>2510 J</b>	<b>3090</b>	77.8 J	60.8	<b>3190 J</b>	<b>2950</b>
Mercury	0.7	0.14 UB	0.2 U	0.07 UB	0.07 UB	0.094 UB	0.063 UB	0.1 UB	0.1 UB	0.098 UB	0.098 UB	0.14 UB	0.11 UB
Nickel	100	39.7 J	35.5 J	5.7 J	5.6 J	11.1 J	7.5 J	3.7 J	1.8 J	3 J	1.7 J	3.4 J	3.5 J
Potassium	--	7510	6450	14700	13400	9900	8770	8990	7100	2950 J	3080 J	18100	16700
Sodium	20000	<b>111000</b>	<b>91600</b>	<b>29900</b>	<b>24100</b>	<b>125000</b>	<b>113000</b>	<b>63400</b>	<b>52600</b>	12900	15800	<b>68400</b>	<b>63200</b>
Zinc	2000	1600	1400	302	386	32	25.1	17.8 J	5.6 UB	15.2 J	9.8 UB	33.4	9 UB

Footnotes/Qualifiers:

ug/l Micrograms per liter

U Compound was analyzed for but not detected

J Estimated detection limit or value

UB Non-detect based on blank results

-- No standard

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

Note that well MW-06A was dry and could not be sampled



Table 3  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 06/22/2017	LF-2 06/20/2017	MW-5B 06/20/2017	MW-6B 06/21/2017	MW-6C 06/21/2017	MW-6E 06/21/2017	MW-6F 06/21/2017	MW-8A 06/22/2017	MW-8B 06/22/2017	MW-9B 06/20/2017	MW-9C 06/20/2017	OBS-1 06/20/2017
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	—	112 J	466 J	30 J	905 J	331 J	177 J	3.6 J	7.2 J	45 J	34.4 J	12 J	144 J
Alkalinity,Bicarbonate	—	112	466 J	30 J	905 J	331 J	177 J	3.6 J	7.2	45	34.4 J	12 J	144 J
Alkalinity,Carbonate	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloride	250	75.8	<b>488</b>	97.2	<b>306</b>	206	<b>346</b>	248	65.4	249	88.7	39	96.3
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	—	190	120	70	120	176	152	180	40	104	72	19	100
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.0064 J	0.023 J	0.014 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.026 UB	0.68 J	0.03 UB	<b>116</b>	<b>16.2</b>	<b>31.9</b>	0.42	0.021 UB	0.43	0.19 UB	0.59 J	<b>8.4 J</b>
Nitrogen, Kjeldahl, Total	—	0.65 J	3.2	0.1 U	114 J	12.4 J	30.2 J	0.1 UJ	0.1 UJ	0.65 J	0.35	0.9	9.1
Nitrate	10	5.5	5.6	5.6	0.091 J	0.034 J	1.7 J	3.3 J	4.5	0.63	4	0.75	0.19
Nitrite	1	0.05 U	0.045 J	0.068	0.05 U	0.05 U	0.05 U	0.022 UB	0.012 J	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.0011 UB	0.0021 UB	0.0016 UB	0.017 UB	0.0135 UB	0.0049 UB	0.0034 UB	0.0011 UB	0.0029 UB	0.0025 UB	0.003 UB	0.0094 UB
Sulfate	250	45.4	40.8	18.8	1 J	42.4	20.9	0.48 J	37.9	35.3	19.9	10.6	27.8
Total Dissolved Solids	—	325	1420	264	1040	670	680	544	159	508	228	72	279

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- No standard

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

Note that well MW-06A was dry and could not be sampled

Table 1  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Volatile Organic Compounds

Sample ID	Sample Date	LF-1 09/21/17	LF-2 09/21/17	MW-5B 09/21/17	MW-6B 09/22/17	MW-6C 09/22/17	MW-6E 09/22/17	MW-6F 09/22/17	MW-8A 09/22/17	MW-8B 09/22/17	MW-9B 09/21/17	MW-9C 09/21/17	OBS-1 09/21/17
Units in ug/l													
VOLATILE COMPOUNDS													
	NYSDEC Class GA Standard or Guidance Value												
1,1,1-Trichloroethane	5	1 U	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	5	1 U	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	5	1 U	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	3	1 U	1.3	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,2-Dichloropropane	1	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,3-Dichlorobenzene	3	1 U	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	3	1 U	3.3	1 U	3.6	1 U	1.0	1 U	1 U	1 U	1 U	1 U	1.2
Benzene	1	1 U	3.4	1 U	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	2.7	1 U	7.7	1 U	3.2	1 U	1 U	1 U	1 U	1 U	1.8
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	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-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.4	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	9.7	1 U	6.0	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5	1 U	1 U	1 U	1 U
Toluene	5	1 U	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	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.8	1 U	1 U	1.3	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	2 U	3.8	2 U	1.1 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
<b>Total Volatile Compounds</b>	--	ND	24.2	ND	21.6	ND	5.6	ND	14.7	ND	ND	1.3	3

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

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

Note that well MW-06A was dry and could not be sampled



Table 2  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 09/21/17 Total	LF-1 09/21/17 Dissolved	LF-2 09/21/17 Total	LF-2 09/21/17 Dissolved	MW-5B 09/21/17 Total	MW-5B 09/21/17 Dissolved	MW-6B 09/22/17 Total	MW-6B 09/22/17 Dissolved	MW-6C 09/22/17 Total	MW-6C 09/22/17 Dissolved	MW-6E 09/22/17 Total	MW-6E 09/22/17 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	—	200 U	15.6 UB	38.5 J	200 U	16.4 J	200 U	159 J	14.2 UB	200 U	200 U	200 U	200 U
Barium	1000	83 J	72.8 J	56 J	55.7 J	40.2 J	36.6 J	55 J	51.2 J	24.6 J	23 J	208	192 J
Calcium	—	19000	17200	35700	34400	14000	12400	18200	17000	36600	34200	35900	33300
Chromium	50	10 U	10 U	12.2	13.5	10 U	10 U	3.6 J	2.2 J	10 U	10 U	10 U	10 U
Copper	200	25 U	3.3 J	25 U	25 U	25 U	25 U	2.8 J	25 U	25 U	25 U	25 U	4.4 J
Iron	300	<b>22400</b>	<b>19500</b>	<b>8220</b>	<b>7840</b>	200 U	20 U	<b>12300</b>	<b>9140</b>	<b>3970</b>	<b>3580</b>	<b>21000</b>	<b>19100</b>
Lead	25	2.3 J	5 U	2.1 J	5 U	1.8 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	16500	14800	24500	22900	6740	5980	12600	11900	8790	8420	16800	15900
Manganese	300	<b>4340</b>	<b>4260</b>	193	184	<b>5030</b>	<b>5270</b>	68.5	37.3	93.4	83.3	<b>706</b>	<b>640</b>
Mercury	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	0.2 U
Nickel	100	3.8 J	2.7 UB	20.8 J	19.6 J	2.2 J	2.5 UB	17.7 J	13.7 J	6.4 J	5.5 UB	15 J	12.2 J
Potassium	—	9790	10000	160000	162000	11200	11000	90200	91200	23400	24200	36300	36300
Sodium	20000	<b>83400</b>	<b>86400</b>	<b>538000</b>	<b>535000</b>	<b>60700</b>	<b>63200</b>	<b>258000</b>	<b>274000</b>	<b>179000</b>	<b>189000</b>	<b>183000</b>	<b>190000</b>
Zinc	2000	8.1 UB	3.1 UB	7.4 UB	2.3 UB	3.4 UB	1.7 UB	6.4 UB	1.6 UB	4.2 UB	20 UB	21.5 UB	16.7 UB

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

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

Note that well MW-06A was dry and could not be sampled

Table 2  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-6F 09/22/17 Total	MW-6F 09/22/17 Dissolved	MW-8A 09/22/17 Total	MW-8A 09/22/17 Dissolved	MW-8B 09/22/17 Total	MW-8B 09/22/17 Dissolved	MW-9B 09/21/17 Total	MW-9B 09/21/17 Dissolved	MW-9C 09/21/17 Total	MW-9C 09/21/17 Dissolved	OBS-1 09/21/17 Total	OBS-1 09/21/17 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	166 J	162 UB	55.5 J	46.5 UB	26.2 J	32.3 UB	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	223	205	82.3 J	78.1 J	156 J	143 J	99 J	95.6 J	52.2 J	48.5 J	64.6 J	60.5 J
Calcium	--	37100	34500	9430	10300	24000	22300	15400	14400	7830	7100	24000	21700
Chromium	50	10 U	10 U	2.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	2.5 J	25 U	24.5 J	19.1 J	3.1 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	63.2 UB	49.7 UB	64 UB	19.5 UB	19.6 UB	32.1 UB	200 U	20 U	20.5 UB	20 U	53.5 UB	51.9 UB
Lead	25	5 U	2.3 J	3.6 J	3.5 J	5 U	5 U	1.5 J	5 U	1.8 J	5 U	2 J	5 U
Magnesium	35000	14600	13800	6960	6950	8300	7850	6370	5840	9760	8800	16300	14700
Manganese	300	116	107	143	128	<del>1110</del>	<del>1000</del>	<del>3380</del>	<del>3480</del>	187	169	<del>2780</del>	<del>2680</del>
Mercury	0.7	0.11 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	0.092 J	0.07 J
Nickel	100	22.2 J	20.7 J	6.7 J	5.9 UB	21.5 J	20 J	40 U	1 UB	1.4 J	2 UB	3.4 J	3.4 UB
Potassium	--	7750	7870	12700	13200	10300	10600	8550	8800	10600	10400	24800	24400
Sodium	20000	<del>132000</del>	<del>139000</del>	<del>35800</del>	<del>39000</del>	<del>151000</del>	<del>162000</del>	<del>57700</del>	<del>59500</del>	<del>63700</del>	<del>63300</del>	<del>72300</del>	<del>72400</del>
Zinc	2000	47.4 UB	43.3 UB	114 UB	107 UB	63.2 UB	58 UB	2.6 UB	20 U	3.1 UB	1.3 UB	2.9 UB	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

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

Note that well MW-06A was dry and could not be sampled



Table 3  
 Old Bethpage Landfill Complex  
 Post-Termination Groundwater Monitoring Program  
 Monitoring Well Sample Results  
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 09/21/17	LF-2 09/21/17	MW-5B 09/21/17	MW-6B 09/22/17	MW-6C 09/22/17	MW-6E 09/22/17	MW-6F 09/22/17	MW-8A 09/22/17	MW-8B 09/22/17	MW-9B 09/21/17	MW-9C 09/21/17	OBS-1 09/21/17
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	—	124	1590	34.2	957	272	328	1 U	13.2	8.4	34.6	44	196
Alkalinity, Bicarbonate	—	124 J	--	34.2 J	--	272 J	328 J	--	13.2 J	8.4 J	34.6 J	44 J	196 J
Alkalinity, Carbonate	—	1 U	--	1 U	--	1 U	1 U	--	1 U	1 U	1 U	1 U	1 U
Chloride	250	138	<b>633</b>	125	<b>344</b>	238	<b>380</b>	<b>388</b>	81.1	<b>360</b>	117	126	123
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U
Hardness	—	100	147	60	88	112	144	120	46	84	60	48	108
Hexavalent Chromium	0.05	0.1 U	0.1 U	0.02 U	0.1 U	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.83	<b>192</b>	0.22 UB	<b>137 J</b>	<b>18.4</b>	<b>44.5</b>	0.14 UB	0.018 UB	0.68 J	0.23 UB	1.3	<b>20.4</b>
Nitrogen, Kjeldahl, Total	—	1.7 J	192 J	1.2 J	146	16.1	41.2	0.1 U	0.17	2.4	0.1 U	1.4 J	18.9 J
Nitrate	10	0.037 UB	0.05 U	5.9	0.05 U	0.05 U	1.7 UB	4.1	3.3	1.8 UB	5.1	0.57 UB	0.24 UB
Nitrite	1	0.017 J	0.05 U	0.056	0.05 U	0.05 UJ	0.0096 J	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.0038 UB	<b>0.0318</b>	0.005 U	<b>0.0405</b>	<b>0.0146</b>	0.0065 UB	0.0016 UB	0.0011 UB	0.0034 UB	0.005 U	0.0016 UB	0.0087 UB
Sulfate	250	44.3	0.42 UB	23.9	0.61 UB	42.8	18.6	0.39 UB	33	27.3	21.6	21.7	45.2
Total Dissolved Solids	—	348	1900	241	882	608	682	628	178	560	213	210	323

## Footnotes/Qualifiers:

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

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

Note that well MW-06A was dry and could not be sampled

**Table 1. Summary of Second Quarter 2018 Field Parameter Results and Comparison to Standards**

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			5B	6B	6C	6E	6F	8A
Temperature	°C	No Std.	15.6	17.4	17.8	17.8	16.7	14.6
pH	Units	6.5-8.5	<b>6.10</b>	7.14	6.84	6.99	<b>4.76</b>	<b>4.38</b>
Dissolved Oxygen	mg/L	No Std.	0.56	0.47	0.49	0.27	0.34	8.04
Conductivity	mS/cm	No Std.	0.544	2.390	1.280	2.490	0.900	0.185
Eh	pHmV	No Std.	34.5	-23.5	-7.5	-15.5	111	130
ORP	mV	No. Std.	128	-164	-37.5	-159	162	228
Turbidity	NTU	<5	1	<b>159</b>	<b>16</b>	<b>30</b>	2	0
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Cloudy, Lt. Orange, Strong Odor	Sltly. Cloudy, Moderate Odor	Sltly. Cloudy, Foam, Strong Odor	Clear, No Odor	Clear, No Odor

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			8B	9B	9C	OBS-1	LF-1	LF-2
Temperature	°C	No Std.	14.3	14.5	14.8	15.9	17.5	18.1
pH	Units	6.5-8.5	<b>5.76</b>	<b>5.92</b>	<b>5.72</b>	<b>5.78</b>	6.70	7.27
Dissolved Oxygen	mg/L	No Std.	1.80	0.38	2.79	0.50	2.60	0.25
Conductivity	mS/cm	No Std.	0.880	0.491	0.370	0.519	0.610	3.530
Eh	pHmV	No Std.	52.2	44.2	55.3	52.4	0.90	-31.4
ORP	mV	No Std.	213	131	127	153	-71.6	-176
Turbidity	NTU	<5	1	1	3	1	4	0
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, Odor	Foam, Strong Odor

Notes: Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.

Bold values exceed Class GA standard.

°C = degrees Celsius.

mg/L = milligrams per Liter.

mS/cm = milliSiemens per centimeter.

pHmV = pH in milliVolts.

ORP = Oxidation-Reduction Potential

mV = milliVolts.

NTU = Nephelometric turbidity units.

N/A = Not applicable.

Table 2. Summary of Second Quarter 2018 VOC Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-5B	MW-6B	MW-6C	MW-6E	MW-6F	MW-8A
Aromatic Hydrocarbons:							
Benzene	1	<1.0	<b>2.0</b>	<1.0	<b>3.1</b>	<1.0	<1.0
Chlorobenzene	5	<1.0	<b>6.0</b>	<1.0	<b>9.4</b>	<1.0	<1.0
1,2-Dichlorobenzene	3	<1.0	1.2	<1.0	1.1	<1.0	<1.0
1,4-Dichlorobenzene	3	<1.0	<b>3.2</b>	<1.0	<b>3.9</b>	<1.0	<1.0
Isopropylbenzene	5	<1.0	3.1	<1.0	2.9	<1.0	<1.0
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<b>8.6</b>
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.1

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-8B	MW-9B	MW-9C	OBS-1	LF-1	LF-2
Aromatic Hydrocarbons:							
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<b>1.7</b>
Chlorobenzene	5	<1.0	<1.0	<1.0	1.8	<1.0	2.0
1,2-Dichlorobenzene	3	<1.0	<1.0	<1.0	<1.0	<1.0	1.0
1,4-Dichlorobenzene	3	<1.0	<1.0	<1.0	1.2	<1.0	2.4
Isopropylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	3.8
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	1.2	<1.0	2.8	<1.0	<1.0	<1.0

Notes: Parameters listed are the VOCs that were detected in at least one groundwater sample.  
Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.  
Results are in units of micrograms per Liter (ug/L).  
Bold results exceed Class GA standard.

**Table 3. Summary of Second Quarter 2018 Leachate Indicator Parameter Results and Comparison to Standards**

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Alkalinity	No Std.	24.0	696	316	742	4.0 J	2.0 J
Ammonia	2	0.16	<b>97.1</b>	<b>18.0</b>	<b>101</b>	0.49	0.25
Chloride	250	126	241	214	248	<b>295</b>	38.0
Cyanide	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate	10	6.6	<0.050	<0.050	0.094	2.8	1.8
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	6.6	<0.050	<0.050	0.1	2.8	1.8
Sulfate	250	27.0	4.3 J	49.2	5.9	0.33 J	19.0
Total Dissolved Solids	500 (SMCL)	231	<b>862</b>	<b>595</b>	<b>856</b>	397	94.0
Total Hardness	No Std.	60.0	136	112	128	120	34.0
Total Kjeldahl Nitrogen	No Std.	<0.10	137	23.4	115	0.69	0.10
Total Phenols	0.001	<b>0.0033 J</b>	<b>0.0392</b>	<b>0.0141</b>	<b>0.0305</b>	<b>0.0018 J</b>	<0.005

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Alkalinity	No Std.	48.0	26.0	22.0	184	120	30.0
Ammonia	2	0.069 J	0.64	2.1	<b>7.8</b>	0.87	<b>117</b>
Chloride	250	232	115	96.5	103	78.2	<b>476</b>
Cyanide	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate	10	1.3	3.5	1.4	0.34	1.4	<0.050
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	1.3	3.5	1.4	0.3	1.4	<0.050
Sulfate	250	38.0	24.2	22.8	33.5	42.4	0.48 J
Total Dissolved Solids	500 (SMCL)	409	269	236	337	307	<b>1,590</b>
Total Hardness	No Std.	84.0	56.0	38.0	110	100	132
Total Kjeldahl Nitrogen	No Std.	0.69	0.72	4.0	14.8	4.5	150
Total Phenols	0.001	<0.005	<0.005	<b>0.0048 J</b>	<b>0.0059</b>	<0.005	<b>0.0372</b>

Notes: Standards are the Class GA groundwater standards listed in 6NYCRR Part 703.5, except for TDS. Standard for TDS is the more stringent federal secondary maximum contaminant level (SMCL). Results are in units of milligrams per Liter (mg/L). J = Estimated result above method detection limit but below reporting limit. Bold results exceed Class GA standard.



**Table 4. Summary of Second Quarter 2018 Inorganic Parameter Results and Comparison to Standards**

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Aluminum	No. Std.	38.5 J	216	86.0 J	48.6 J	249	30.9 J
Barium	1,000	30.6 J	36.8 J	23.0 J	138 J	162 J	50.2 J
Calcium	No Std.	12,700	12,100	32,000	29,800	27,300	4,850
Chromium, Total	50	<10.0	4.9 J	2.8 J	<10.0	1.7 J	1.7 J
Chromium, Hexavalent	50	<20	<20	<20	<40	3.0 J	3.0 J
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	4.2 J
Iron	300	55.9	<b>10,600</b>	<b>5,730</b>	<b>54,600</b>	<b>693</b>	19.0 J
Iron and Manganese	500	<b>3,676</b>	<b>10,645</b>	<b>5,808</b>	<b>55,145</b>	<b>798</b>	178 J
Lead	25	<5.0	2.9 J	3.2 J	<5.0	<5.0	1.3 J
Magnesium	No Std.	5,900	8,920	7,930	17,100	10,600	5,420
Manganese	300	<b>3,620</b>	45.1	78.4	545	105	159
Mercury	0.7	0.14 J	<0.20	<0.20	0.16 J	0.18 J	<0.20
Nickel	100	8.6 J	16.4 J	12.6 J	11.6 J	27.0 J	11.8 J
Potassium	No Std.	11,000	83,700	27,400	71,000	7,660	5,010
Sodium	20,000	<b>57,600</b>	<b>205,000</b>	<b>163,000</b>	<b>198,000</b>	<b>96,300</b>	11,900
Zinc	2,000 <sup>GV</sup>	1.3 J	11.6 J	63.0	8.1 J	140	36.2

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Aluminum	No. Std.	21.4 J	27.9 J	13.7 J	41.8 J	29.6 J	155 J
Barium	1,000	75.8 J	77.9 J	50.1 J	67.0 J	42.9 J	39.6 J
Calcium	No Std.	24,600	12,700	6,590	14,200	19,800	26,300
Chromium, Total	50	5.4 J	<10.0	<10.0	<10.0	<10.0	9.4 J
Chromium, Hexavalent	50	5.8 J	<20	3.7 J	<20	<20	<20
Copper	200	<25.0	<25.0	3.3 J	<25.0	<25.0	<25.0
Iron	300	56.2	39.6	93.1	104	<b>8,360</b>	<b>6,730</b>
Iron and Manganese	500	387	<b>2,560</b>	237	<b>2,454</b>	<b>9,960</b>	<b>6,887</b>
Lead	25	<5.0	3.6 J	<5.0	<5.0	<5.0	<5.0
Magnesium	No Std.	6,170	5,890	5,940	9,680	14,100	18,000
Manganese	300	<b>331</b>	<b>2,520</b>	144	<b>2,350</b>	<b>1,600</b>	157
Mercury	0.7	<0.20	<0.20	0.28	<0.20	0.15 J	0.13 J
Nickel	100	10.2 J	4.4 J	5.7 J	5.6 J	9.2 J	17.1 J
Potassium	No Std.	8,820	8,460	8,950	12,400	10,800	123,000
Sodium	20,000	<b>107,000</b>	<b>51,500</b>	<b>45,000</b>	<b>50,700</b>	<b>61,900</b>	<b>400,000</b>
Zinc	2,000 <sup>GV</sup>	16.6 J	2.5 J	3.4 J	1.5 J	5.6 J	2.8 J

Notes: Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.  
 GV = Guidance Value, there is no Class GA standard for this parameter.  
 Results are in units of micrograms per Liter (ug/L).  
 J = Estimated result above method detection limit but below reporting limit.  
 Bold results exceed Class GA standard.

**Table 1. Summary of Fourth Quarter 2018 Field Parameter Results and Comparison to Standards**

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			5B	6B	6C	6E	6F	8A
Temperature	°C	No Std.	15.5	17.6	17.6	17.7	16.5	13.5
pH	Units	6.5-8.5	<b>6.33</b>	7.32	7.35	6.92	<b>4.82</b>	<b>4.97</b>
Dissolved Oxygen	mg/L	No Std.	0.59	0.37	0.31	0.38	0.67	8.25
Conductivity	mS/cm	No Std.	0.507	2.238	1.831	1.977	1.006	0.136
Eh	pHmV	No Std.	524	-34.8	-36.5	-11.6	109	99.8
ORP	mV	No. Std.	153	-109	-86.1	-97	193	161
Turbidity	NTU	<5	2.7	<b>32.2</b>	1.6	<b>108</b>	4.2	4.6
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Cloudy, Strong Sulfur Odor	Sity. Cloudy, Moderate Sulfur Odor	Sity. Cloudy, Foam, Strong Sulfur Odor	Clear, No Odor	Clear, No Odor

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			8B	9B	9C	OBS-1	LF-1	LF-2
Temperature	°C	No Std.	13.8	14.8	15.3	16.1	16.3	16.8
pH	Units	6.5-8.5	<b>4.13</b>	<b>6.19</b>	N/A	6.62	7.00	7.43
Dissolved Oxygen	mg/L	No Std.	0.36	0.52	0.40	0.46	0.56	0.58
Conductivity	mS/cm	No Std.	1.160	0.464	0.492	0.747	0.634	3.170
Eh	pHmV	No Std.	147	29.9	524	5.7	-16.10	-41.5
ORP	mV	No Std.	254	154	972	112	-81.8	-138
Turbidity	NTU	<5	4.6	0.29	1.2	0.47	1.8	2.3
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, Odor	Light Yellow, Strong Odor

Notes: Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.

Bold values exceed Class GA standard.

°C = degrees Celsius.

mg/L = milligrams per Liter.

mS/cm = milliSiemens per centimeter.

pHmV = pH in milliVolts.

ORP = Oxidation-Reduction Potential

mV = milliVolts.

NTU = Nephelometric turbidity units.

N/A = Not applicable.

**Table 2. Summary of Fourth Quarter 2018 VOC Results and Comparison to Standards**

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-5B	MW-6B	MW-6C	MW-6E	MW-6F	MW-8A
Aromatic Hydrocarbons:							
Benzene	1	<1.0	1.0	0.94 J	0.95 J	<1.0	<1.0
Chlorobenzene	5	<1.0	3.6	2.4	3.9	<1.0	<1.0
1,4-Dichlorobenzene	3	<1.0	1.8	1.5	1.3	<1.0	<1.0
Isopropylbenzene	5	<1.0	2.4	1.8	0.87 J	<1.0	<1.0
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	2.8
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-8B	MW-9B	MW-9C	OBS-1	LF-1	LF-2
Aromatic Hydrocarbons:							
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<b>1.2</b>
Chlorobenzene	5	<1.0	<1.0	<1.0	0.96 J	<1.0	0.98 J
1,4-Dichlorobenzene	3	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
Isopropylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	2.3
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	2.1	2.4	<1.0	<1.0	<1.0

Notes: Parameters listed are the VOCs that were detected in at least one groundwater sample.  
 Class GA Standards are the potable groundwater standards listed in 6NYCRR Part 703.5.  
 Results are in units of micrograms per Liter (ug/L).  
 Bold results exceed Class GA standard.

**Table 3. Summary of Fourth Quarter 2018 Leachate Indicator Parameter Results and Comparison to Standards**

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Alkalinity	No Std.	31.3	763	741	426	0.63 J	1.3
Ammonia	2	0.024 J	<b>117</b>	<b>97.3</b>	<b>6.6</b>	0.20	0.14
Chloride	250	137	<b>296</b>	<b>288</b>	<b>404</b>	<b>376</b>	37.6
Cyanide	0.2	<0.010	0.003 J	<0.010	<0.010	<0.010	<0.010
Nitrate	10	4.4	<0.050	<0.050	1.1	3.4	1.2
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	4.4	<0.050	<0.050	1.1	3.4	1.2
Sulfate	250	27.3	0.69 J	4.7 J	23.8	<5	11.2
Total Dissolved Solids	500 (SMCL)	267	<b>848</b>	<b>812</b>	<b>732</b>	<b>568</b>	73.0
Total Hardness	No Std.	58.0	72.0	100	148	140	24.0
Total Kjeldahl Nitrogen	No Std.	<0.10	129	107	68.0	<0.10	<0.10
Total Phenols	0.001	<b>0.0018 J</b>	<b>0.0295</b>	<b>0.0346</b>	<b>0.0161</b>	<0.005	<0.005

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Alkalinity	No Std.	10.3	29.0	39.0	191	122	1,160
Ammonia	2	0.17	0.42	<b>3.7</b>	<b>40.4</b>	<b>10</b>	<b>12.3</b>
Chloride	250	130	126	128	124	118	<b>461</b>
Cyanide	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate	10	1.1	3.3	1.8	0.39	<0.050	<0.050
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	1.1	3.3	1.8	0.39	<0.050	<0.050
Sulfate	250	32.2	23.2	22.7	35.6	43.9	8.5
Total Dissolved Solids	500 (SMCL)	<b>538</b>	240	240	312	282	<b>1,540</b>
Total Hardness	No Std.	80.0	56.0	57.0	99.0	88.0	130
Total Kjeldahl Nitrogen	No Std.	0.33	<0.10	3.1	20.7	10.5	136
Total Phenols	0.001	<0.005	<0.005	<b>0.0048 J</b>	<b>0.0069</b>	<b>0.0079</b>	<b>0.0213</b>

Notes: Standards are the Class GA groundwater standards listed in 6NYCRR Part 703.5, except for TDS. Standard for TDS is the more stringent federal secondary maximum contaminant level (SMCL). Results are in units of milligrams per Liter (mg/L). J = Estimated result above method detection limit but below reporting limit. Bold results exceed Class GA standard or SMCL.



Table 4. Summary of Fourth Quarter 2018 Inorganic Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Aluminum	No. Std.	15.4 J	166 J	24.5 J	37.0 J	229	35.7 J
Barium	1,000	32.6 J	42.4 J	23.0 J	194 J	202	41.4 J
Calcium	No Std.	13,300	14,300	24,300	35,800	35,500	4,040
Chromium, Total	50	<10.0	1.8 J	<10.0	<10.0	<10.0	<10.0
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Iron	300	14.5 J	<b>10,300</b>	<b>3,140</b>	<b>27,600</b>	<b>500</b>	<100
Iron and Manganese	500	<b>3,875 J</b>	<b>10,350</b>	<b>3,195</b>	<b>28,045</b>	<b>618</b>	65.1
Lead	25	1.4 J	3.7 J	<5.0	1.3 J	1.5 J	<5.0
Magnesium	No Std.	6,060	10,500	9,910	17,500	13,700	4,600
Manganese	300	<b>3,860</b>	50.0	55.4	<b>445</b>	118	65.1
Mercury	0.7	0.14 J	<0.20	<0.20	0.21	0.19 J	<0.20
Nickel	100	5.8 J	13.0 J	11.2 J	12.0 J	26.5 J	8.2 J
Potassium	No Std.	10,300	92,800	76,200	49,400	7,120	3,260 J
Sodium	20,000	<b>63,600</b>	<b>250,000</b>	<b>243,000</b>	<b>203,000</b>	<b>121,000</b>	10,800
Zinc	2,000 <sup>GV</sup>	4.5 J	9.5 J	5.4 J	18.1 J	63.9	38.8

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Aluminum	No. Std.	52.3 J	14.0 J	15.9 J	14.1 J	13.8 J	27.6 J
Barium	1,000	144 J	91.0 J	53.7 J	48.3 J	75.8 J	41.2 J
Calcium	No Std.	26,300	13,700	7,840	17,100	17,200	26,700
Chromium, Total	50	<10.0	<10.0	<10.0	<10.0	<10.0	6.7 J
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	4.5 J	<25.0
Iron	300	23.1 J	<100	21.0 J	74.6 J	<b>13,000</b>	<b>6,490</b>
Iron and Manganese	500	<b>1,173 J</b>	<b>2,430</b>	195	<b>2,625 J</b>	<b>15,590</b>	<b>6,628</b>
Lead	25	<5.0	<5.0	<5.0	2.0 J	<5.0	3.1 J
Magnesium	No Std.	8,710	5,910	7,120	13,800	13,500	17,500
Manganese	300	<b>1,150</b>	<b>2,430</b>	174	<b>2,550</b>	<b>2,590</b>	138
Mercury	0.7	<0.20	<0.20	<0.20	0.18 J	<0.20	<0.20
Nickel	100	24.4 J	2.5 J	4.0 J	3.9 J	7.3 J	13.6 J
Potassium	No Std.	10,700	8,110	12,400	24,700	13,300	125,000
Sodium	20,000	<b>160,000</b>	<b>59,000</b>	<b>65,000</b>	<b>69,100</b>	<b>66,100</b>	<b>450,000</b>
Zinc	2,000 <sup>GV</sup>	59.0	5.7 J	6.4 J	5.4 J	5.5 J	5.3 J

Notes: Class GA Standards are the potable groundwater standards listed in 6NYCRR Part 703.5.  
 GV = Guidance Value from NYSDEC TOGS 1.1.1, there is no Class GA standard for this parameter.  
 Results are in units of micrograms per Liter (ug/L).  
 J = Estimated result above method detection limit but below reporting limit.  
 Bold results exceed Class GA standard.

Table 5. Summary of Fourth Quarter 2018 Dissolved Inorganic Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND DISSOLVED INORGANIC PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Aluminum	No. Std.	<200	102 J	16.7 J	22.5 J	180 J	32.6 J
Barium	1,000	30.6 J	34.8 J	19.5 J	165 J	198 J	39.9 J
Calcium	No Std.	13,200	13,000	23,200	34,400	34,900	3,930
Chromium, Total	50	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Iron	300	<20.0	<b>1,570</b>	271	<b>4,440</b>	<b>395</b>	<20.0
Iron and Manganese	500	<b>3,740</b>	<b>1,593</b>	321	<b>4,844</b>	<b>510</b>	62.6
Lead	25	1.6 J	<5.0	<5.0	<5.0	<5.0	2.5 J
Magnesium	No Std.	5,960	9,560	9,400	16,800	13,400	4,480
Manganese	300	<b>3,740</b>	23.2	49.5	<b>404</b>	115	62.6
Mercury	0.7	<0.20	<0.20	<0.20	<0.20	0.16 J	<0.20
Nickel	100	6.0 J	9.6 J	10.9 J	10.8 J	26.1 J	7.7 J
Potassium	No Std.	9,960	87,000	74,000	48,000	7,080	3,210 J
Sodium	20,000	<b>61,100</b>	<b>232,000</b>	<b>234,000</b>	<b>199,000</b>	<b>116,000</b>	9,880
Zinc	2,000 <sup>GV</sup>	2.8 J	3.5 J	3.3 J	4.7 J	60.1	39.4

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND DISSOLVED INORGANIC PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Aluminum	No. Std.	49.5 J	<200	<200	15.0 J	<200	29.8 J
Barium	1,000	138 J	87.8 J	51.0 J	47.2 J	68.9 J	34.8 J
Calcium	No Std.	25,200	13,300	7,500	16,700	16,200	25,400
Chromium, Total	50	<10.0	<10.0	<10.0	<10.0	<10.0	6.3 J
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Iron	300	13.9 J	<20.0	<20.0	49.5	<b>6,040</b>	<b>3,010</b>
Iron and Manganese	500	<b>1,094 J</b>	<b>2,350</b>	167	<b>2,580</b>	<b>8,510</b>	<b>3,139</b>
Lead	25	<5.0	1.8 J	<5.0	<5.0	1.8 J	<5.0
Magnesium	No Std.	8,310	5,730	6,770	13,400	12,800	16,400
Manganese	300	<b>1,080</b>	<b>2,350</b>	167	<b>2,530</b>	<b>2,470</b>	129
Mercury	0.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	100	22.9 J	<40.0	2.9 J	4.8 J	5.5 J	14.2 J
Potassium	No Std.	10,300	7,880	11,900	23,800	12,800	121,000
Sodium	20,000	<b>155,000</b>	<b>56,900</b>	<b>62,200</b>	<b>66,500</b>	<b>63,800</b>	<b>437,000</b>
Zinc	2,000 <sup>GV</sup>	53.4	3.2 J	3.7 J	2.9 J	5.3 J	3.5 J

Notes: Class GA Standards are the potable groundwater standards listed in 6NYCRR Part 703.5.  
 GV = Guidance Value from NYSDEC TOGS 1.1.1, there is no Class GA standard for this parameter.  
 Results are in units of micrograms per Liter (ug/L).  
 J = Estimated result above method detection limit but below reporting limit.  
 Bold results exceed Class GA standard.