D&B ENGINEERS AND ARCHITECTS

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

Old Bethpage Landfill

Post-Termination Groundwater Monitoring Program

Second Semiannual Report of 2022

December 2022

D&B ENGINEERS AND ARCHITECTS

SECOND SEMIANNUAL REPORT OF 2022

OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

Prepared for:

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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SECOND SEMIANNUAL REPORT OF 2022
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POST-TERMINATION GROUNDWATER MONITORING PROGRAM

TABLE OF CONTENTS

List of Appendices

List of Figures

List of Tables

1.0 INTRODUCTION

This Second Semiannual Report of 2022 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 second semiannual groundwater sampling event of 2022 and is the twelfth 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 was to be performed semi-annually for three years, for a total of six rounds. A Final Post Termination Groundwater Monitoring Report which summarized the initial six sampling rounds completed between 2017 and 2019 has been prepared and previously submitted to the NYSDEC in March 2020. This final report evaluated if the termination criteria described in Appendix A, Section III of the Consent Decree has been met. The findings of this report indicated that the termination criteria has sufficiently been met and there is no benefit in continuing the operation of recovery wells RW-1 and RW-2 and it was recommended that these wells remain shut down. Until a formal response is received upon the NYSDEC review of the report, the Town will continue with current protocols. This twelfth sampling round will serve as a continuation of the Post Termination Monitoring period.

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-05B, MW-06A, MW-06B, MW-06C, MW-06E, MW-06F, MW-08A, MW-08B, MW-09B, MW-09C and OBS-1 were sampled on October 25, 26, 27, 28 and 31 and November 1, 2022 as part of the second semiannual groundwater sampling event of 2022. 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 at a low flow rate of approximately (500 ml/minute or less) directly from

the pump discharge tubing. 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 six trip blanks. The chain of custody forms are provided in **Appendix B**.

2.2 Sample Analyses

Groundwater samples collected during the second semiannual groundwater sampling event of 2022 from the monitoring wells were analyzed for VOCs, total and dissolved metals, and leachate indicators. Laboratory analyses were performed by Pace Analytical Laboratories, located in 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 0.45-micron 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 six trip blanks were collected as part of the second semiannual groundwater sampling event of 2022 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 Laboratories, located in Melville, New York, and was reported in data package 70234464. Phenolics were subcontracted to Microbac Laboratories, Inc. located in Marietta, Ohio and was reported in data package M2K0506.

The data package submitted by the analytical laboratory was validated in accordance with NYSDEC quality assurance/quality control (QA/QC) requirements. The Data Validation Checklists are provided in **Appendix C**. The laboratory data package is 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 quality control (QC) limit in the matrix spike (MS) for tert-butylbenzene associated with samples TRIP BLANK, LF-1, MW-06E, MW-06B, and FIELD BLANK. It was qualified as an estimated detection limit (UJ) in associated samples.

- The following metals detected in the blanks and qualified as non-detect (UB): dissolved iron in samples MW-05B, MW-08A, MW-09B, MW-06F, OBS-1, BLIND DUPLICATE, and MW-09C; and total lead in samples BLIND DUPLICATE, MW-09B, and MW-09C.

- The %Rs were below the QC limit in the MS for dissolved barium associated with samples OBS-1, BLIND DUPLICATE, MW-09C, MW-09B, LF-2, MW-08A, MW-08B, MW-05B, MW-06F, MW-06C, and MW-06A and total barium associated with sample OBS-1. These samples were qualified as estimated (J).

- The %R was above the QC limit in the matrix spike for total potassium associated with samples OBS-1, MW-06F, MW-06C, and MW-06A and was qualified as estimated (J).

- Numerous samples were originally analyzed for alkalinity at a dilution. Based on these results, the samples were reanalyzed at no dilution and the non-diluted results were

reported.

- The following were analyzed outside of holding times: total and dissolved hexavalent chromium associated with samples MW-05B, MW-06F, MW-06C, MW-06A, LF-1, MW-06E, MW-06B, and FIELD BLANK; nitrite associated with samples MW-06F and MW-06A; and TKN associated with sample MW-06C. These samples were qualified as estimated (J/UJ) in associated samples.

- The following were detected in the blanks and qualified as non-detect (UB): ammonia in samples MW-08B, MW-06F, MW-06A, and LF-1; and sulfate in sample MW-06F.

- The RPD was above the QC limit in the duplicate for total dissolved solids associated with samples OBS-1, BLIND DUPLICATE, MW-09C, MW-09B, MW-08A, MW-08B, MW-05B, LF-2, LF-1, MW-06E, MW-06B, and FIELD BLANK and was qualified as estimated (J/UJ).

- The %R was below the QC limit in the matrix spike for chloride associated with samples LF-2, MW-05B, MW-08A, and MW-08B and was qualified as estimated (J).

- The %R was above the QC limit in the matrix spike for sulfate and was qualified as estimated (J) in the following samples: BLIND DUPLICATE, MW-09C, MW-09B, LF-2, MW-08A, MW-08B, MW-05B, MW-06C, and MW-06A.

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 second semiannual groundwater sampling event of 2022 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 NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA groundwater (herein referred to as the Class GA groundwater standards and guidance values). Figures presenting exceedances of the Class GA groundwater standards and guidance values detected during the last four rounds of sampling are presented as **Figure 2** for VOCs, **Figure 3** for total and dissolved metals, and **Figure 4** for leachate indicators.

3.2.1 Volatile Organic Compounds

Detectable concentrations of VOCs were identified in 6 of the 13 groundwater monitoring wells, including LF-1, MW-06A, MW-06B, MW-06C, MW-06E, and MW-08A. The highest concentration of total VOCs of 29.5 ug/l was detected at MW-06B. The sample collected from MW-08A exhibited the next highest concentration of total VOCs of 16 ug/l, followed in decreasing order by LF-1, MW-06A, MW-06C, and MW-06E. VOCs were detected at concentrations above Class GA groundwater standards and guidance values at wells LF-1, MW-06A, MW-06B and MW-08A as follows:

- 1,4-Dichlorobenze was detected MW-06B at a concentration of 3.8 ug/l, slightly above the Class GA standard of 3 ug/l.
- Benzene was detected at MW-06B at a concentration of 2.1 ug/l, slightly above the Class GA standard of 1 ug/l.
- Chlorobenzene was detected at MW-06B at a concentration of 17.4 ug/l, above the Class GA standard of 5 ug/l.
- Cis-1,2-dichloroethylene (1,2-DCE) was detected at MW-08A at a concentration of 6.6 ug/l, slightly above the Class GA standard of 5 ug/l.
- Tetrachloroethylene (PCE) was detected at MW-08A at a concentration of 7.0 ug/l, slightly above the Class GA standard of 5 ug/l.
- Trichloroethylene (TCE) was detected at LF-1 and MW-06A at concentrations of 8.4 ug/l and 7.7 ug/l, respectively, slightly above the Class GA standard of 5 ug/l.

3.2.2 Inorganic Parameters

Iron, manganese, and sodium were detected above groundwater standards in either total and/or dissolved samples, as described below.

- Total iron was detected above the Class GA groundwater standard of 300 ug/l in 5 of the 13 groundwater monitoring wells, with these concentrations ranging from 6,890 ug/l at MW-06C to a maximum of 19,400 ug/l at MW-06B. For samples collected from LF-1, LF-2, MW-06B, MW-06C and MW-06E, dissolved iron concentrations were similar to their respective total concentrations.

- Total manganese was detected above the Class GA groundwater standard of 300 ug/l in 5 of the 13 groundwater monitoring wells, with these concentrations ranging from 496 ug/l at MW-08B to a maximum of 2,660 ug/l at MW-05B. Dissolved manganese concentrations were similar to their respective total concentrations.

- Total sodium was detected above the Class GA groundwater standard of 20,000 ug/l in 11 of the 13 groundwater monitoring wells, with these concentrations ranging from 43,600 ug/l at OBS-1 to a maximum of 295,000 ug/l at LF-2. In general, dissolved sodium concentrations were similar to their respective total concentrations.

3.2.3 Leachate Indicators

Chloride, ammonia, total phenols, and total dissolved solids 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 3 of the 13 groundwater monitoring wells, with concentrations of 281 mg/l at MW-06C, 257 mg/l at MW-06E, and 443 mg/l at MW-06F.

- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 5 of the 13 groundwater monitoring wells, with these concentrations ranging from 12.3 mg/l at OBS-1 to a maximum of 124 mg/l at MW-06B.

- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l in 8 of the 13 groundwater monitoring wells, with these concentrations ranging from 0.003 mg/l at well MW-06A to a maximum of 0.0157 mg/l at LF-2.

- Total dissolved solids (TDS) were detected above the Class GA groundwater standard of 500 mg/l in 5 of the 13 groundwater monitoring wells, with these concentrations ranging from 612 mg/l at MW-06E to a maximum of 1,240 mg/l at LF-2.

3.3 Historical Groundwater Trends

Since the objective of the Post-Termination monitoring period (2017 through present) is to assess the impacts of ceasing operation of recovery wells RW-1 and RW-2 (well pumps are out of service but the wells remain in place for potential future use), D&B performed an interim trend analysis using the results from the twelve 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. Previously collected post-termination groundwater data is provided in **Appendix F**. The following provides a brief discussion of the trend analysis.

3.3.1 Volatile Organic Compounds

During the Post-Termination period, seven monitoring wells (MW-05B, MW-06A (May 2019 through May 2022), MW-06F, MW-08B, MW-09B, MW-09C and OBS-1), in general exhibited a fairly stable trend in TVOCs.

Monitoring well MW-06E (since June 2018) has exhibited a decreasing trend.

For well MW-06A a slight increase in TVOCs (7.7 ug/l) was noted during the October/November 2022 sampling event in comparison to the previous May 2022 sampling result (non-detect). It should be noted this increase is most likely due to the former Claremount Polychemical Site and is not related to the landfill.

Monitoring well MW-06C, in general has exhibited a somewhat unstable trend.

Monitoring well LF-1 exhibited a significant decrease in TVOCs from 28 ug/l in May 2022 to 9.5 ug/l in October/November 2022. Although this well has exhibited a marked increase in TCE in 2021 and in 2022, this increase is not likely landfill related and may be the result of prior discharge of partially treated Claremont plume water to Recharge Basin Number 1. Monitoring Well LF-1, in general has shown an overall increasing trend.

Similarly, TVOCs in well LF-2 exhibited a significant decrease from 22 ug/l in May 2022 to non-detect in October/November 2022. Monitoring Well LF-2, in general has shown an increasing trend.

For monitoring wells MW-06B and MW-08A, these wells have shown a more apparent increasing trend in TVOCs. It should be noted, the increasing VOC trend in MW-08A is most likely due to the former Claremont Polychemical Site and not related to the landfill.

3.3.2 Inorganic Parameters

Historical graphs and trend 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, with the exception of the following:

- Well MW-06C shows a slight increasing trend in manganese concentrations.
- Well MW-06F shows an increasing trend in sodium concentrations.
- Well LF-2 shows a slight increasing trend in iron concentrations.

It should be noted that iron, manganese and sodium are naturally occurring in the groundwater aquifers on Long Island and the concentrations detected in the monitoring wells downgradient of the Landfill do not impose a significant concern for the groundwater quality.

3.3.3 Leachate Indicators

Historical graphs and trend lines have been established for the following leachate indicators: ammonia, chloride, total phenols, and total dissolved solids. In general, these leachate indicators exhibited either a decreasing or relatively flat trend in the majority of the wells, with the exception of the following:

- Wells MW-06F and MW-09C show slight increasing trends in total dissolved solids.
- Well LF-2 shows an increasing trend in ammonia concentrations.

4.0 CONCLUSIONS

The following conclusions are made based on the above information:

- Overall, the results of the second semiannual 2022 sampling event (twelfth round) of post-termination monitoring are, in general, consistent with the results from the prior post-termination rounds, except where noted below.

- Landfill related impacts (e.g., select VOCs, metals, and leachate parameters) continue to be evident in wells LF-1 (excluding TCE in well LF-1 in 2021 and 2022, since TCE has historically not been associated with the landfill VOC plume) and LF-2 (excluding VOCs which were not detected in the twelfth round), located adjacent to and downgradient of the landfill, as well as wells MW-06A, MW-06B, MW-06C, and MW-06E located in a cluster further downgradient of the landfill. The remaining wells that were sampled continue to exhibit no or only minor landfill-related impacts.

- Although wells LF-1 and LF-2 are both located on the downgradient boundary of the landfill, well LF-1 exhibits far less landfill-related impacts (i.e., leachate indicators) in comparison to well LF-2. This is most likely attributed to the fact that well LF-1 is located downgradient of the newer portion of the landfill, which is partially lined, whereas well LF-2 is located downgradient of the older unlined portion of the landfill that is primarily composed of ash.

- It should be noted that well cluster 6 which has historically exhibited the most landfill-related impacts of the monitoring wells is also located downgradient of the older, unlined portion of the landfill. Wells MW-06B, MW-06C and MW-06E, which show the most landfill related impacts are screened at depths that most likely intercept the off-site landfill plume.

- It is noted in the trend analysis that certain parameters exhibit a degree of variability, including short term increases of VOCs in a few wells, which could possibly be related to the ongoing operation of the other three recovery wells (RW-3, RW-4, and RW-5), which are still operating full-time, as well as temporal variations in aquifer recharge.

- With respect to landfill-related VOCs, detections were limited to low concentrations of four aromatic hydrocarbons which included: benzene, 1,4-dichlorobenzene, chlorobenzene and isopropylbenzene. One or more of these VOCs were detected in wells MW-06B, MW-06C and MW-06E. Three of the four aromatic hydrocarbons, with exception to isopropylbenzene, exceeded their individual Class GA groundwater standard in one or more of these wells.

- Regarding chlorinated solvents, slightly elevated concentrations, above their respective groundwater standards for cis-1,2-DCE and PCE, were detected in well MW-08A. This is most likely attributed to residual contamination from the former Claremont Polychemical Site, which is located directly upgradient of this water-table zone well.

Chlorinated solvents associated with the former Claremont Polychemical Site have been historically detected in this well. In addition, low concentrations of TCE (below the groundwater standard) were also detected in well MW-08A and TCE was detected above the groundwater standard in wells LF-1 and MW-06A. However, the concentrations of TCE detected in wells MW-06A and MW-08A are also most likely associated with residual contamination from the former Claremont Polychemical Site. Furthermore, TCE detected in well LF-1 in 2022 is most likely due to recharge of partially treated water in upgradient Recharge Basin Number 1, located off Claremount Road. There was reportedly a period of time when the TCE levels in the Claremont/Former American Louver (FAL) sites plume spiked and could not completely be remediated by the air stripper. It is understood that similar levels of TCE were detected in monitoring well MW-06A (in close proximity of Recharge Basin Number 33 located off Winding Road.) during that period.

FIGURES

COUNTY RECHARGE BASIN NO. 528

GROUNDWATER TREATMENT FACILITY

BETHPAGE SWEET HOLLOW ROAD

CLAREMONT ROAD

TOWN RECHARGE BASIN NO. 1

SWAMP ROAD

LF-4

LF-3

WINDING ROAD

M-29A-R

M-30A

M-30B-R

M-29B

FORMER CLAREMONT POLYCHEMICAL SITE

LANDFILL BOUNDARY

ROUND SWAMP ROAD

PHASE II PIT

OLD BETHPAGE LANDFILL

LF-2

MW-8A,B,C

TW-1

MW-10A,B,C,D

TW-2

TW-3-R

LF-1

MW-6A,B,C,D,E,F

TOWN PROPERTY BOUNDARY

RW-5

NASSAU COUNTY FIRE SERVICE ACADEMY

TOWN RECHARGE BASIN NO. 33

MW-5A,B

TOWN RECHARGE BASIN NO. 15 (NYS BASIN NO. 938)

MW-9A,B,C

RW-4

RW-3

RW-1

RW-2

MW-7A,B-R

OBS-1

BETHPAGE GOLF COURSE

SWAMP ROAD

ROUND SWAMP ROAD

MW-11A,B

QUAKER MEETING HOUSE ROAD

MELVILLE ROAD

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

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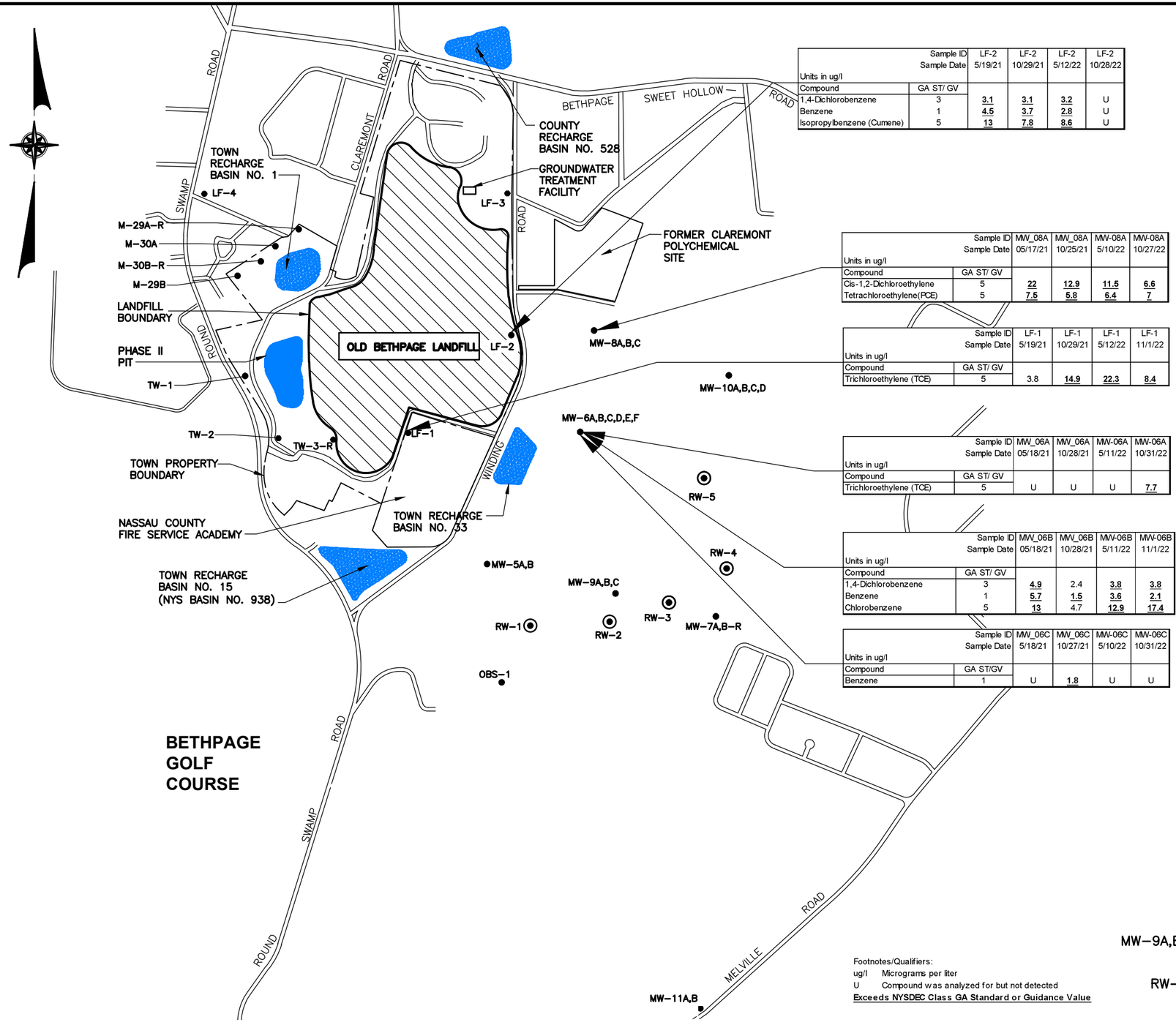
OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

GROUNDWATER MONITORING WELL LOCATION MAP

SCALE: 1"=800'

FIGURE 1

J:_WaterSupply\3617 (TOB Groundwater Monitoring)\2017\Landfill Sampling 1Q 2017\3617-C-well location map fig 1.dwg, Layout1, 12/27/2022 3:45:45 PM, droot



Units in ug/l	Sample ID	LF-2	LF-2	LF-2	LF-2
	Sample Date	5/19/21	10/29/21	5/12/22	10/28/22
Compound	GA ST/ GV				
1,4-Dichlorobenzene	3	3.1	3.1	3.2	U
Benzene	1	4.5	3.7	2.8	U
Isopropylbenzene (Cumene)	5	13	7.8	8.6	U

Units in ug/l	Sample ID	MW_08A	MW_08A	MW-08A	MW-08A
	Sample Date	05/17/21	10/25/21	5/10/22	10/27/22
Compound	GA ST/ GV				
Cis-1,2-Dichloroethylene	5	22	12.9	11.5	6.6
Tetrachloroethylene(PCE)	5	7.5	5.8	6.4	7

Units in ug/l	Sample ID	LF-1	LF-1	LF-1	LF-1
	Sample Date	5/19/21	10/29/21	5/12/22	11/1/22
Compound	GA ST/ GV				
Trichloroethylene (TCE)	5	3.8	14.9	22.3	8.4

Units in ug/l	Sample ID	MW_06A	MW_06A	MW-06A	MW-06A
	Sample Date	05/18/21	10/28/21	5/11/22	10/31/22
Compound	GA ST/ GV				
Trichloroethylene (TCE)	5	U	U	U	7.7

Units in ug/l	Sample ID	MW_06B	MW_06B	MW-06B	MW-06B
	Sample Date	05/18/21	10/28/21	5/11/22	11/1/22
Compound	GA ST/ GV				
1,4-Dichlorobenzene	3	4.9	2.4	3.8	3.8
Benzene	1	5.7	1.5	3.6	2.1
Chlorobenzene	5	13	4.7	12.9	17.4

Units in ug/l	Sample ID	MW_06C	MW_06C	MW-06C	MW-06C
	Sample Date	5/18/21	10/27/21	5/10/22	10/31/22
Compound	GA ST/GV				
Benzene	1	U	1.8	U	U

NOTE:

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

Footnotes/Qualifiers:
ug/l Micrograms per liter
U Compound was analyzed for but not detected
Exceeds NYSDEC Class GA Standard or Guidance Value

LEGEND:

MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL

RW-1 ⊙ OLD BETHPAGE LANDFILL RECOVERY WELL

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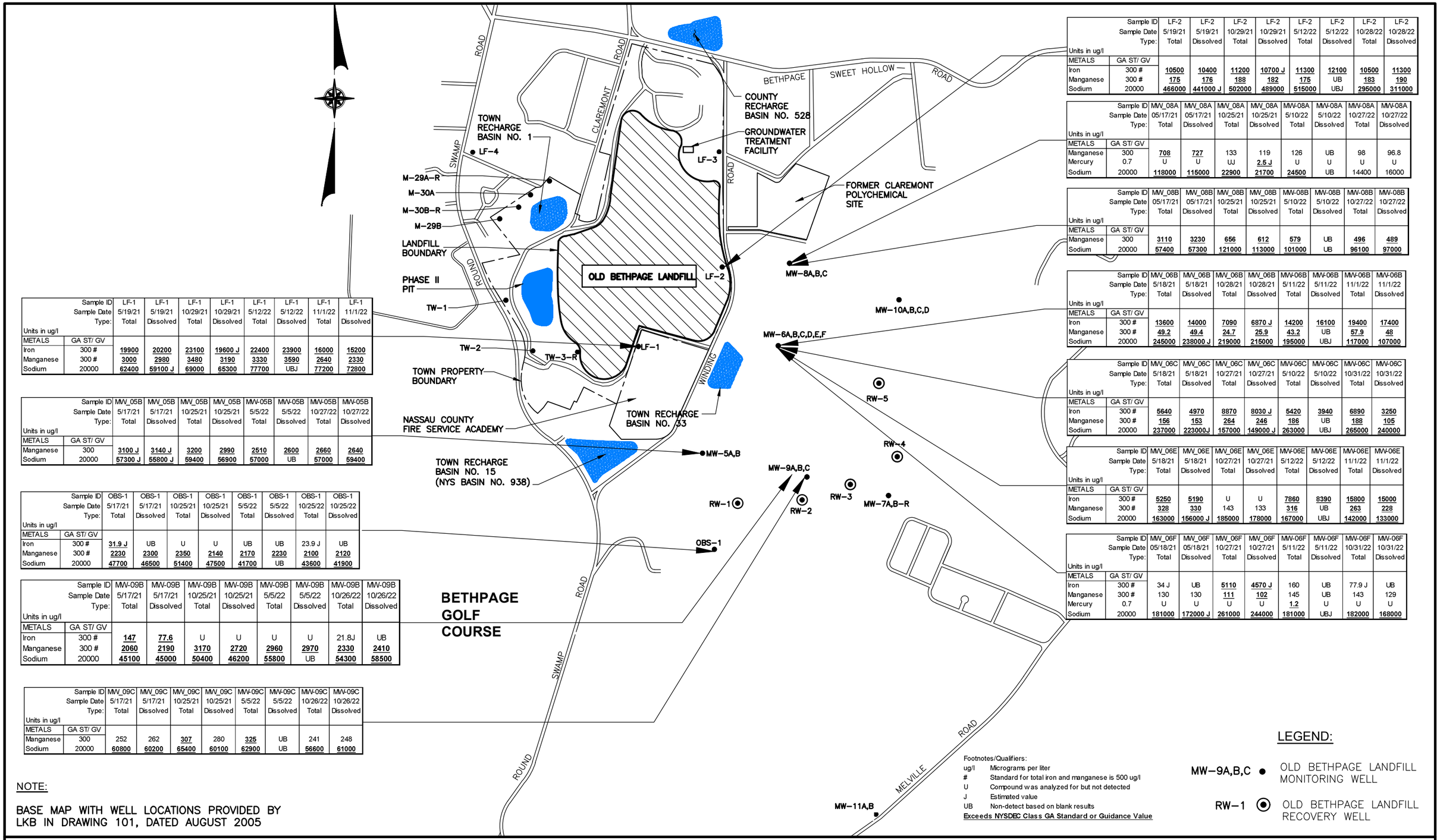
OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
VOLATILE ORGANIC COMPOUND CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2020 - 2022

SCALE: 1"=900'

FIGURE 2

F:\3617\3617-07\dwg\3617-07-C-PL03.dwg, VOCs, 12/27/2022 3:42:12 PM, droot



Sample ID	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1
Sample Date	5/19/21	5/19/21	10/29/21	10/29/21	5/12/22	5/12/22	11/1/22	11/1/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**19900**	**20200**	**23100**	**19600 J**	**22400**	**23900**	**16000**	**15200**
Manganese	300 #	**3000**	**2980**	**3480**	**3190**	**3330**	**3590**	**2640**	**2330**
Sodium	20000	**62400**	**59100 J**	**69000**	**65300**	**77700**	UBJ	**77200**	**72800**

Sample ID	MW_05B	MW_05B	MW_05B	MW_05B	MW-05B	MW-05B	MW-05B	MW-05B
Sample Date	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22	10/27/22	10/27/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Manganese	300	**3100 J**	**3140 J**	**3200**	**2990**	**2510**	**2600**	**2660**	**2640**
Sodium	20000	**57300 J**	**55800 J**	**59400**	**56900**	**57000**	UB	**57000**	**59400**

Sample ID	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1
Sample Date	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22	10/25/22	10/25/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**31.9 J**	UB	U	U	UB	UB	23.9 J	UB
Manganese	300 #	**2230**	**2300**	**2350**	**2140**	**2170**	**2230**	**2100**	**2120**
Sodium	20000	**47700**	**46500**	**51400**	**47500**	**41700**	UB	**43600**	**41900**

Sample ID	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B
Sample Date	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22	10/26/22	10/26/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**147**	**77.6**	U	U	U	U	21.8J	UB
Manganese	300 #	**2060**	**2190**	**3170**	**2720**	**2960**	**2970**	**2330**	**2410**
Sodium	20000	**45100**	**45000**	**50400**	**46200**	**55800**	UB	**54300**	**58500**

Sample ID	MW_09C	MW_09C	MW_09C	MW_09C	MW-09C	MW-09C	MW-09C	MW-09C
Sample Date	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22	10/26/22	10/26/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Manganese	300	252	262	**307**	280	**325**	UB	241	248
Sodium	20000	**60800**	**60200**	**65400**	**60100**	**62900**	UB	**56600**	**61000**

Sample ID	LF-2	LF-2	LF-2	LF-2	LF-2	LF-2	LF-2	LF-2
Sample Date	5/19/21	5/19/21	10/29/21	10/29/21	5/12/22	5/12/22	10/28/22	10/28/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**10500**	**10400**	**11200**	**10700 J**	**11300**	**12100**	**10500**	**11300**
Manganese	300 #	**175**	**176**	**188**	**182**	**175**	UB	**183**	**190**
Sodium	20000	**466000**	**441000 J**	**502000**	**489000**	**515000**	UBJ	**295000**	**311000**

Sample ID	MW_08A	MW_08A	MW_08A	MW_08A	MW-08A	MW-08A	MW-08A	MW-08A
Sample Date	05/17/21	05/17/21	10/25/21	10/25/21	5/10/22	5/10/22	10/27/22	10/27/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Manganese	300	**708**	**727**	133	119	126	UB	98	96.8
Mercury	0.7	U	U	UJ	**2.5 J**	U	U	U	U
Sodium	20000	**118000**	**115000**	**22900**	**21700**	**24500**	UB	14400	16000

Sample ID	MW_08B	MW_08B	MW_08B	MW_08B	MW-08B	MW-08B	MW-08B	MW-08B
Sample Date	05/17/21	05/17/21	10/25/21	10/25/21	5/10/22	5/10/22	10/27/22	10/27/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Manganese	300	**3110**	**3230**	**656**	**612**	**579**	UB	**496**	**489**
Sodium	20000	**57400**	**57300**	**121000**	**113000**	**101000**	UB	**96100**	**97000**

Sample ID	MW_06B	MW_06B	MW_06B	MW_06B	MW-06B	MW-06B	MW-06B	MW-06B
Sample Date	5/18/21	5/18/21	10/28/21	10/28/21	5/11/22	5/11/22	11/1/22	11/1/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**13600**	**14000**	**7090**	**6870 J**	**14200**	**16100**	**19400**	**17400**
Manganese	300 #	**49.2**	**49.4**	**24.7**	**25.9**	**43.2**	UB	**57.9**	**48**
Sodium	20000	**245000**	**238000 J**	**219000**	**215000**	**195000**	UBJ	**117000**	**107000**

Sample ID	MW_06C	MW_06C	MW_06C	MW_06C	MW-06C	MW-06C	MW-06C	MW-06C
Sample Date	5/18/21	5/18/21	10/27/21	10/27/21	5/10/22	5/10/22	10/31/22	10/31/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**5640**	**4970**	**8870**	**8030 J**	**5420**	**3940**	**6890**	**3250**
Manganese	300 #	**156**	**153**	**264**	**246**	**186**	UB	**188**	**105**
Sodium	20000	**237000**	**223000J**	**157000**	**149000 J**	**263000**	UBJ	**265000**	**240000**

Sample ID	MW_06E	MW_06E	MW_06E	MW_06E	MW-06E	MW-06E	MW-06E	MW-06E
Sample Date	5/18/21	5/18/21	10/27/21	10/27/21	5/12/22	5/12/22	11/1/22	11/1/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	**5250**	**5190**	U	U	**7860**	**8390**	**15800**	**15000**
Manganese	300 #	**328**	**330**	143	133	**316**	UB	**263**	**228**
Sodium	20000	**163000**	**156000 J**	**185000**	**178000**	**167000**	UBJ	**142000**	**133000**

Sample ID	MW_06F	MW_06F	MW_06F	MW_06F	MW-06F	MW-06F	MW-06F	MW-06F
Sample Date	05/18/21	05/18/21	10/27/21	10/27/21	5/11/22	5/11/22	10/31/22	10/31/22
Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l								
METALS	GA ST/ GV							
Iron	300 #	34 J	UB	**5110**	**4570 J**	160	UB	77.9 J	UB
Manganese	300 #	130	130	**111**	**102**	145	UB	143	129
Mercury	0.7	U	U	U	U	**1.2**	U	U	U
Sodium	20000	**181000**	**172000 J**	**261000**	**244000**	**181000**	UBJ	**182000**	**168000**

NOTE:

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

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 value
UB	Non-detect based on blank results

Exceeds NYSDEC Class GA Standard or Guidance Value

LEGEND:

MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL

RW-1 ◉ OLD BETHPAGE LANDFILL RECOVERY WELL

D&B ENGINEERS AND ARCHITECTS

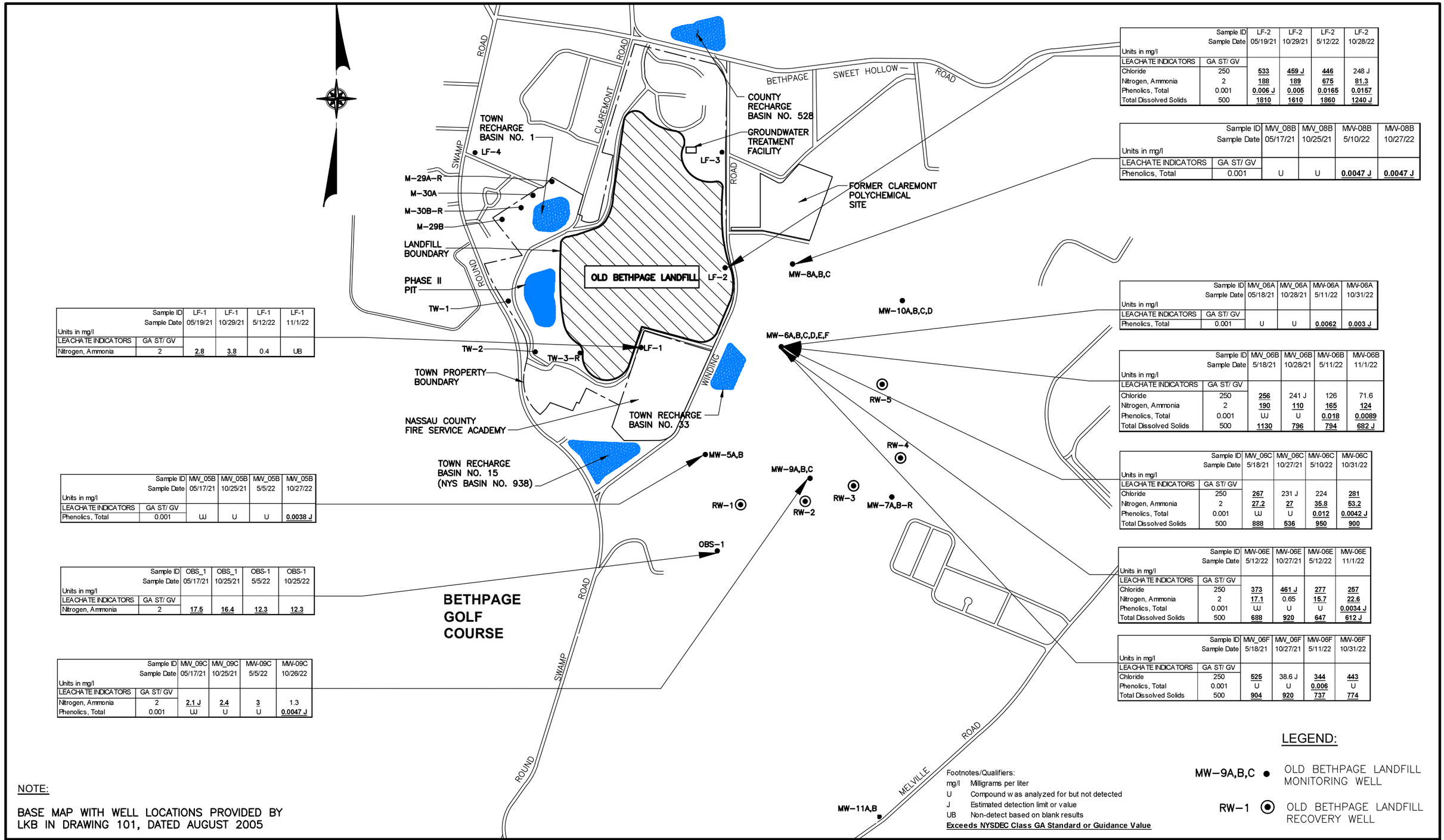
OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

TOTAL AND DISSOLVED METAL CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2020 - 2022

SCALE: 1"=900'

FIGURE 3

F:\3617\3617-07\dwg\3617-07-C-PL02.dwg, METALS, 12/27/2022 3:42:40 PM, droot



Units in mg/l	Sample ID	LF-1	LF-1	LF-1	LF-1
	Sample Date	05/19/21	10/29/21	5/12/22	11/1/22
LEACHATE INDICATORS	GA ST/ GV				
Nitrogen, Ammonia	2	**2.8**	**3.8**	0.4	UB

Units in mg/l	Sample ID	LF-2	LF-2	LF-2	LF-2
	Sample Date	05/19/21	10/29/21	5/12/22	10/28/22
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**533**	**459 J**	**446**	248 J
Nitrogen, Ammonia	2	**188**	**189**	**675**	**81.3**
Phenolics, Total	0.001	**0.006 J**	**0.005**	**0.0165**	**0.0157**
Total Dissolved Solids	500	**1810**	**1610**	**1860**	**1240 J**

Units in mg/l	Sample ID	MW_08B	MW_08B	MW-08B	MW-08B
	Sample Date	05/17/21	10/25/21	5/10/22	10/27/22
LEACHATE INDICATORS	GA ST/ GV				
Phenolics, Total	0.001	U	U	**0.0047 J**	**0.0047 J**

Units in mg/l	Sample ID	MW_06A	MW_06A	MW-06A	MW-06A
	Sample Date	05/18/21	10/28/21	5/11/22	10/31/22
LEACHATE INDICATORS	GA ST/ GV				
Phenolics, Total	0.001	U	U	**0.0062**	**0.003 J**

Units in mg/l	Sample ID	MW_06B	MW_06B	MW-06B	MW-06B
	Sample Date	5/18/21	10/28/21	5/11/22	11/1/22
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**256**	241 J	126	71.6
Nitrogen, Ammonia	2	**190**	**110**	**165**	**124**
Phenolics, Total	0.001	UJ	U	**0.018**	**0.0089**
Total Dissolved Solids	500	**1130**	**796**	**794**	**682 J**

Units in mg/l	Sample ID	MW_05B	MW_05B	MW_05B	MW_05B
	Sample Date	05/17/21	10/25/21	5/5/22	10/27/22
LEACHATE INDICATORS	GA ST/ GV				
Phenolics, Total	0.001	UJ	U	U	**0.0038 J**

Units in mg/l	Sample ID	MW_06C	MW_06C	MW-06C	MW-06C
	Sample Date	5/18/21	10/27/21	5/10/22	10/31/22
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**267**	231 J	224	**281**
Nitrogen, Ammonia	2	**27.2**	**27**	**35.8**	**53.2**
Phenolics, Total	0.001	UJ	U	**0.012**	**0.0042 J**
Total Dissolved Solids	500	**888**	**536**	**950**	**900**

Units in mg/l	Sample ID	OBS_1	OBS_1	OBS-1	OBS-1
	Sample Date	05/17/21	10/25/21	5/5/22	10/25/22
LEACHATE INDICATORS	GA ST/ GV				
Nitrogen, Ammonia	2	**17.5**	**16.4**	**12.3**	**12.3**

Units in mg/l	Sample ID	MW-06E	MW-06E	MW-06E	MW-06E
	Sample Date	5/12/22	10/27/21	5/12/22	11/1/22
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**373**	**461 J**	**277**	**257**
Nitrogen, Ammonia	2	**17.1**	0.65	**15.7**	**22.6**
Phenolics, Total	0.001	UJ	U	U	**0.0034 J**
Total Dissolved Solids	500	**688**	**920**	**647**	**612 J**

Units in mg/l	Sample ID	MW_09C	MW_09C	MW-09C	MW-09C
	Sample Date	05/17/21	10/25/21	5/5/22	10/26/22
LEACHATE INDICATORS	GA ST/ GV				
Nitrogen, Ammonia	2	**2.1 J**	**2.4**	**3**	1.3
Phenolics, Total	0.001	UJ	U	U	**0.0047 J**

Units in mg/l	Sample ID	MW_06F	MW_06F	MW-06F	MW-06F
	Sample Date	5/18/21	10/27/21	5/11/22	10/31/22
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**525**	38.6 J	**344**	**443**
Phenolics, Total	0.001	U	U	**0.006**	U
Total Dissolved Solids	500	**904**	**920**	**737**	**774**

NOTE:

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

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

LEGEND:

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

D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
LEACHATE INDICATOR
CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2020 - 2022

SCALE: 1"=900'

FIGURE 4

F:\3617\3617-07\dwg\3617-07-C-PL01.dwg, LEACHATE, 12/27/2022 3:46:37 PM, droot

TABLES

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

Units in ug/l	Sample ID Sample Date	LF-1 11/1/22	LF-2 10/28/22	MW-05B 10/27/22	MW-06A 10/31/22	MW-06B 11/1/22	MW-06C 10/31/22	MW-06E 11/1/22	MW-06F 10/31/22	MW-08A 10/27/22	MW-08B 10/27/22	MW-09B 10/26/22	MW-09C 10/26/22	OBS-1 10/25/22
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	1.1	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	1.1	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 U	1 U	1 U	***3.8***	1.2	1.1	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	1 U	***2.1***	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	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	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	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	***17.4***	1.9	2.7	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	2.8	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	1.1	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***6.6***	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	1 U	1 U	1 U	1.2	1.5	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 UJ	1 U	1 U	1 U	1 UJ	1 U	1 UJ	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	***7.0***	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	***8.4***	1 U	1 U	***7.7***	1 U	1 U	1 U	1 U	1.3	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	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	--	9.5	ND	ND	7.7	29.5	4.6	3.8	ND	16	ND	ND	ND	ND

ug/l Micrograms per liter
U Compound was analyzed for but not detected
J Estimated limit
-- No standard
ND Not detected
Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

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

Units in ug/l	Sample ID	LF-1	LF-1	LF-2	LF-2	MW-05B	MW-05B	MW-06A	MW-06A	MW-06B	MW-06B	MW-06C	MW-06C	MW-06E	MW-06E
	Sample Date	11/1/22	11/1/22	10/28/22	10/28/22	10/27/22	10/27/22	10/31/22	10/31/22	11/1/22	11/1/22	10/31/22	10/31/22	11/1/22	11/1/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	72.7 J	69.1 J	53.7 J	55.8 J	40.7 J	40.8 J	49.1 J	43.7 J	80.4 J	73.6 J	36.5 J	24.1 J	134 J	126 J
Calcium	--	12300	11800	48100	50100	12200	12600	3530	3510	29600	26800	63000	56400	21800	20300
Chromium	50	10 U	10 U	4.3 J	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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	25 U	25 U
Iron	300 #	***16000***	***15200***	***10500***	***11300***	100 U	8.4 UB	224	170	***19400***	***17400***	***6890***	***3250***	***15800***	***15000***
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	5 U
Magnesium	35000	8340	7800	29400	29500	4960	5100	3640	3560	32600	28500	14800	13400	14800	13700
Manganese	300 #	***2640***	***2330***	***183***	***190***	***2660***	***2640***	19	17.5	***57.9***	***48***	***188***	***105***	***263***	***228***
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	0.2 U	0.2 U
Nickel	100	10.6 J	7.5 J	12.3 J	11.2 J	8.7 J	7.7 J	10 J	6.6 J	6.8 J	6.1 J	16 J	13.4 J	16.1 J	11.9 J
Potassium	--	12300	11400	88200	92500	9010	9380	2750 J	2790 J	107000	88600	56200 J	53300	33300	29400
Sodium	20000	***77200***	***72800***	***295000***	***311000***	***57000***	***59400***	13200	12600	***117000***	***107000***	***265000***	***240000***	***142000***	***133000***
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5.2 J

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 value
UB	Not detected base 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

Units in ug/l	Sample ID / Sample Date / Type:	MW-06F 10/31/22 Total	MW-06F 10/31/22 Dissolved	MW-08A 10/27/22 Total	MW-08A 10/27/22 Dissolved	MW-08B 10/27/22 Total	MW-08B 10/27/22 Dissolved	MW-09B 10/26/22 Total	MW-09B 10/26/22 Dissolved	MW-09C 10/26/22 Total	MW-09C 10/26/22 Dissolved	OBS-1 10/25/22 Total	OBS-1 10/25/22 Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	237	154 J	73.2 J	56.4 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	255	241 J	53 J	55 J	59.8 J	59 J	83.7 J	85.3 J	59.4 J	61.6 J	33.1 J	33.4 J
Calcium	--	44400	43400	4330	4680	14000	14400	11700	11800	10700	11000	11200	11200
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J	10 U	1.3 J	10 U	10 U	10 U
Copper	200	6.8 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	77.9 J	19.6 UB	27.6 J	27.6 UB	100 U	20 U	***21.8 J***	27.6 UB	38.1 J	29.3 UB	***23.9 J***	20.4 UB
Lead	25	3.6 J	5 U	5 U	5 U	5 U	5 U	3.6 UB	5 U	2.4 UB	5 U	5 U	5 U
Magnesium	35000	17400	16800	4290	4510	3960	4020	5890	5820	6800	6820	6750	6820
Manganese	300 #	143	129	98	96.8	***496***	***489***	***2330***	***2410***	241	248	***2100***	***2120***
Mercury	0.7	0.38	0.11 J	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.091 J
Nickel	100	38.2 J	30.8 J	10.1 J	9.5 J	14.5 J	13.3 J	5.8 J	5 J	6.2 J	6.8 J	4.5 J	40 U
Potassium	--	10400 J	10400	3820 J	4190 J	7720	7890	9200	9490	9890	10300	17100 J	17100
Sodium	20000	***182000***	***168000***	14400	16000	***96100***	***97000***	***54300***	***58500***	***56600***	***61000***	***43600***	***41900***
Zinc	2000	27.2	24.2	11.8 J	14.3 J	24.1	24.5	20 U	20 U	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 value
UB	Not detected base 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

Units in mg/l	Sample ID Sample Date	LF-1 11/1/22	LF-2 10/28/22	MW-05B 10/27/22	MW-06A 10/31/22	MW-06B 11/1/22	MW-06C 10/31/22	MW-06E 11/1/22	MW-06F 10/31/22	MW-08A 10/27/22	MW-08B 10/27/22	MW-09B 10/26/22	MW-09C 10/26/22	OBS-1 10/25/22
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	54.8	1130	40.6	3.6	1000	664	193	1.0 U	3.0	12.0	43.4	52.9	130
Alkalinity,Bicarbonate	---	54.8	1130	40.6	3.6	1000	664	193	1.0 U	3.0	12.0	43.4	52.9	130
Alkalinity,Carbonate	---	1.0 U	5.0 U	1.0 U	1.0 U	5.0 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	132	248 J	98.9 J	29.4	71.6	***281***	***257***	***443***	29.1 J	179 J	101	105	62.5
Cyanide	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hardness	---	65.1	241	50.9	23.8	208	218	115	183	28.5	51.3	53.5	54.7	55.8
Hexavalent Chromium	0.05	0.020 UJ	0.020 U	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	0.17 UB	***81.3***	0.10 U	0.17 UB	***124***	***53.2***	***22.6***	0.17 UB	0.10 U	0.071 UB	0.81	1.3	***12.3***
Nitrogen, Kjeldahl, Total	---	0.39	85.6	0.12	0.10 U	124	55.0 J	25.0	0.11	0.10 U	0.10 U	0.39	1.7	13.0
Nitrate	10	0.050 U	0.050 U	3.5	1.1	0.050 U	0.050 U	2.1	4.0	1.5	2.5	2.9	0.57	0.35
Nitrite	1	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.0055 U	***0.0157***	***0.0038 J***	***0.003 J***	***0.0089***	***0.0042 J***	***0.0034 J***	0.0055 U	0.0055 U	***0.0047 J***	0.0055 U	***0.0047 J***	0.0055 U
Sulfate	250	33.2	53.6	20.0 J	5.8 J	5.0 U	5.3 J	42.5	5.0 UB	22.7 J	27.7 J	21.7 J	20.9 J	18.4 J
Total Dissolved Solids	500	388 J	***1240 J***	261 J	94.0	***682 J***	***900***	***612 J***	***774***	128 J	349 J	261 J	266 J	219 J

Footnotes/Qualifiers:

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

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

APPENDIX A

GROUNDWATER SAMPLING LOGS

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

SITE Town of Oyster Bay Landfill DATE 11/1/2022

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) ..... 47.90'
Approximate Pump Inlet (feet from top of casing)..... 53'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
6 in. casing: 54.1 ft. of water x 1.47 = 79.5 gallons

volume of water removed:
400 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	5.96	16.75	0.515	0.6	1.48	-32
50	6.19	16.74	0.523	0.0	0.42	-88
100	6.32	16.75	0.513	0.0	0.34	-56
150	6.32	16.76	0.516	0.0	0.35	-134
200	6.33	16.76	0.497	0.0	0.26	-141
250	6.34	16.77	0.473	0.0	0.25	-147
300	6.35	16.78	0.486	0.0	0.25	-147
350	6.36	16.75	0.486	0.0	0.21	-152
400	6.37	16.75	0.485	0.0	0.20	-156

Purging Rate: 5 GPM
Purging Time: 80 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:00 p.m.

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

Analyses (Pace Analytical Laboratory)
X VOCs
X Total & Dissolved Metals
Leachate
X Parameters

Observations
Weather/Temperature: Overcast, 55-65F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/28/2022

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

Depth of well (feet from top of casing) ..... 102.10'
Initial static water level (feet from top of casing) 55.50
Approximate Pump Inlet (feet from top of casing)..... 60'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
6 in. casing: 46.6 ft. of water x 1.47 = 68.5 gallons

volume of water removed:
300 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	6.60	17.02	2.63	0.0	0.93	-111
50	6.74	17.11	2.48	0.0	0.42	-154
100	6.91	17.18	2.46	0.0	0.32	-183
150	7.06	17.30	2.48	0.0	0.39	-211
200	7.06	17.29	2.48	0.0	0.38	-211
250	7.07	17.19	2.45	0.0	0.27	-215
300	7.08	17.20	2.44	0.0	0.26	-211

Purging Rate: 5 GPM
Purging Time: 60 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

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

Method:
X Submersible Pump
X In-line filter (Diss. metals)
____ Pos. Disp. Pump
Disposable bailer
____
____ Dedicated pump

Analyses (Pace Analytical Laboratory)
X VOCs
X Total & Dissolved Metals
Leachate
X Parameters

Observations
Weather/Temperature: Partly sunny, 55-60F
Sample description: Clear - Yellow tint
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Leachate odor

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/27/2022

WELL ID: **MW-05B** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 117.25'
Initial static water level (feet from top of casing) ..... 75.90'
Approximate Pump Inlet (feet from top of casing)..... 82'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 41.35 ft. of water x 0.65 = 26.9 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.05	15.86	0.415	0.0	1.09	333
40	6.95	16.00	0.418	0.0	0.29	276
80	6.90	16.03	0.415	0.0	0.26	247
120	6.88	16.04	0.415	0.0	0.25	232
160	6.85	16.05	0.416	0.0	0.29	214
200	6.85	16.07	0.416	0.0	0.23	210

Purging Rate: 4 GPM
Purging Time: 50 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:15 p.m.

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

Analyses: (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Sunny, 60-65F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/31/2022

WELL ID: **MW-06A** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 100.40'
Initial static water level (feet from top of casing) ..... 97.90'
Approximate Pump Inlet (feet from top of casing)..... 103'

Purging Method

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

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =	gallons
3 in. casing:	ft. of water x 0.36 =	gallons
4 in. casing:	2.5 ft. of water x 0.65 =	1.6 gallons

volume of water removed:
36 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	6.77	16.42	0.145	0.0	3.96	-69
6	5.96	16.32	0.139	0.0	5.26	-30
12	5.58	16.25	0.131	0.0	6.52	3
18	5.30	16.21	0.128	0.0	7.16	36
24	5.14	16.19	0.124	0.0	7.38	58
30	5.08	16.19	0.123	0.0	7.55	67
36	5.03	16.19	0.121	0.0	7.48	81

Purging Rate: 2.0 GPM
Purging Time: 18 min
Sampling Rate: *0.1l/min VOCs / 0.5l/min Other Analytes*

Sampling
Time of Sample Collection: 5:20 p.m.

Method:
- X Submersible Pump
- X In-line filter (Diss Metals)
- Pos. Disp. Pump
- Disposable bailer
- Dedicated pump

Analyses: (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Sunny, clear, 65-70F
Sample description: Clear, no odor
Free Product? yes no X describe
Sheen? yes no X describe
Odor? yes no X describe

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 11/1/2022

WELL ID: **MW-06B** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 134.90'
Initial static water level (feet from top of casing) 98.15
Approximate Pump Inlet (feet from top of casing)..... 103'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 36.75 ft. of water x 0.65 = 23.9 gallons

volume of water removed: 140 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	10.29	17.01	1.79	8.3	1.87	-308
20	9.19	16.78	2.16	0.0	0.29	-310
40	9.18	16.80	2.16	0.5	1.16	-301
60	9.13	17.03	2.07	0.9	0.56	-287
80	9.05	16.82	2.17	0.0	0.26	-294
100	8.97	16.84	2.17	0.0	0.20	-294
120	8.59	16.83	2.15	0.0	0.25	-283
140	8.56	16.84	2.15	0.0	0.24	-282

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

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

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

Analyses: (Pace Analytical Laboratory)
X VOCs
X Total & Dissolved Metals
Leachate
X Parameters

Observations
Weather/Temperature: Overcast, 55-65F
Sample description: Clear - yellow tint
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/31/2022

WELL ID: **MW-06C** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 160.90'
Initial static water level (feet from top of casing) ..... 97.65'
Approximate Pump Inlet (feet from top of casing)..... 103'

Purging Method

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

Well Volume Calculation:
2 in. casing: ft. of water x 0.16 = gallons
3 in. casing: ft. of water x 0.36 = gallons
4 in. casing: 63.25 ft. of water x 0.65 = 41.1 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	6.72	16.53	1.58	0.0	3.46	-35
30	7.10	17.46	1.90	0.0	0.25	-165
60	7.17	17.50	1.91	0.0	0.27	-181
90	7.17	17.51	1.92	0.0	0.29	-197
120	7.17	17.51	1.94	0.0	0.25	-198
150	7.18	17.53	1.93	0.0	0.22	-200
180	7.19	17.54	1.91	0.0	0.28	-206
210	7.20	17.55	1.90	0.0	0.30	-208
240	7.20	17.55	1.90	0.0	0.29	-208

Purging Rate: 2.0 GPM
Purging Time: 120 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 3:50 p.m.

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

Analyses: (Pace Analytical Laboratory)
X VOCs
X Total & Dissolved Metals
Leachate
X Parameters

Observations
Weather/Temperature: Sunny, clear 65-70F
Sample description: Clear
Free Product? yes no X describe
Sheen? yes no X describe
Odor? yes X no describe Sulfur/leachate odor

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 11/1/2022

WELL ID: **MW-06E** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 251' historical log
Initial static water level (feet from top of casing) ..... 98.74'
Approximate Pump Inlet (feet from top of casing)..... 104'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 152.26 ft. of water x 0.65 = 98.9 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	5.95	17.41	1.09	1.2	1.37	-135
60	6.53	17.33	1.06	47.6	0.19	-177
120	7.71	17.34	1.18	6.4	0.24	-232
180	7.63	17.39	1.17	2.3	0.21	-226
240	7.52	17.31	1.18	1.0	0.36	-215
300	7.45	17.31	1.18	0.5	0.24	-211
360	7.37	17.31	1.17	0.0	0.23	-208
420	7.36	17.31	1.17	0.0	0.23	-206

Purging Rate: 3 GPM
Purging Time: 140 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 6:45 p.m.

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

Analyses: (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations

Weather/Temperature: Overcast, 55-65F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/31/2022

WELL ID: **MW-06F** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 349' historical log
Initial static water level (feet from top of casing) ..... 98.15'
Approximate Pump Inlet (feet from top of casing)..... 111'

Purging Method

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

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	250.85	ft. of water x 0.65 =	163.1	gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	3.93	17.05	0.996	0.0	1.61	190
90	3.93	17.12	1.07	0.0	0.63	234
180	4.11	16.39	1.21	0.0	0.44	231
270	4.12	16.38	1.20	0.0	0.26	235
360	4.14	16.32	1.17	0.0	0.45	234
450	4.15	16.31	1.17	0.0	0.26	239
500	4.15	16.32	1.18	0.0	0.42	230

Purging Rate: 3 GPM
Purging Time: 180 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 2:15 p.m.

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

Analyses: (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations

Weather/Temperature: Sunny, clear 65-70F
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/27/2022

WELL ID: **MW-08A** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 80.80'
Initial static water level (feet from top of casing) 71.82
Approximate Pump Inlet (feet from top of casing)..... 77'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 8.98 ft. of water x 0.65 = 5.8 gallons

volume of water removed: 30 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	2.90	14.20	0.074	0.0	5.59	343
5	3.11	14.58	0.084	0.0	4.92	310
10	3.49	14.64	0.083	0.0	4.35	293
15	3.69	14.67	0.089	0.0	4.83	282
20	3.78	14.67	0.089	0.0	4.74	282
25	3.79	14.72	0.090	0.0	4.00	286
30	3.82	14.71	0.090	0.0	4.14	285

Purging Rate: 1 GPM
Purging Time: 30 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 5:50 p.m.

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

Analyses: (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- ____ Leachate
- X Parameters

Observations
Weather/Temperature: Sunny, 60-65F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

Note – pH values appear to be low, possible issue with sensor in water quality meter.

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/27/2022

WELL ID: **MW-08B** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 160.20'
Initial static water level (feet from top of casing) ..... 71.31'
Approximate Pump Inlet (feet from top of casing)..... 77'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 88.89 ft. of water x 0.65 = 57.8 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	5.49	14.00	0.660	0.7	3.94	268
40	5.37	13.97	0.757	0.3	0.80	260
80	5.01	13.91	0.713	0.5	0.52	255
120	4.77	13.87	0.627	0.2	0.39	248
160	4.66	13.85	0.593	0.2	0.34	244
200	4.60	13.84	0.573	0.0	0.30	243
240	4.60	13.84	0.573	0.0	0.29	243

Purging Rate: 4 GPM
Purging Time: 60 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 4:20 p.m.

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

Analyses: (Pace Analytical Laboratory)
X VOCs
X Total & Dissolved Metals
Leachate
X Parameters

Observations
Weather/Temperature: Sunny, 60-65F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/26/2022

WELL ID: **MW-09B** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) 169.10
Initial static water level (feet from top of casing) ..... 93.10'
Approximate Pump Inlet (feet from top of casing)..... 98'

Purging Method

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

Well Volume Calculation:
2 in. casing: ____ ft. of water x 0.16 = ____ gallons
3 in. casing: ____ ft. of water x 0.36 = ____ gallons
4 in. casing: 76 ft. of water x 0.65 = 49.4 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.38	14.64	0.403	0.0	1.38	143
25	6.09	14.77	0.403	0.0	0.73	144
50	5.85	15.08	0.410	0.0	0.56	151
75	5.85	15.13	0.410	0.0	0.56	149
100	5.82	15.12	0.410	0.0	0.56	149
125	5.82	15.12	0.410	0.0	0.66	148
150	5.83	15.10	0.410	0.0	0.70	148
175	5.83	15.13	0.410	0.0	0.55	146
200	5.83	15.02	0.410	0.0	0.52	144

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: 3:30 p.m.

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

Analyses: (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Overcast, 62-72F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/26/2022

WELL ID: **MW-09C** Time On-site: Time Off-site:
SAMPLERS: KR

Depth of well (feet from top of casing) ..... 225' historical log
Initial static water level (feet from top of casing) 94.03
Approximate Pump Inlet (feet from top of casing)..... 99'

Purging Method

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

Well Volume Calculation:
2 in. casing: ft. of water x 0.16 = gallons
3 in. casing: ft. of water x 0.36 = gallons
4 in. casing: 130.97 ft. of water x 0.65 = 85.1 gallons

volume of water removed:
315 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	7.70	14.92	0.235	0.0	5.17	127
60	5.78	15.68	0.425	0.0	0.55	139
120	5.78	15.67	0.425	0.0	0.48	139
180	5.78	15.68	0.427	0.0	0.48	135
240	5.79	15.60	0.425	0.0	0.30	126
300	5.82	15.72	0.423	0.0	0.20	124
315	5.82	15.73	0.423	0.0	0.21	124

Purging Rate: 3 GPM
Purging Time: 105 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 Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Overcast, 62-72F
Sample description: Clear, no odor
Free Product? yes no X describe
Sheen? yes no X describe
Odor? yes no X describe

Note – Collected blind duplicate at MW-09C

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/25/2022

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

Depth of well (feet from top of casing) ..... 194.75'
Initial static water level (feet from top of casing) ..... 51.12'
Approximate Pump Inlet (feet from top of casing)..... 56'

Purging Method

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

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	143.63	ft. of water x 0.65 =	93.4	gallons

volume of water removed: 300 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	6.99	16.44	0.359	0.0	2.18	130
30	6.12	16.03	0.360	0.0	0.66	141
60	5.91	16.35	0.386	0.0	0.83	140
90	6.10	16.14	0.403	0.0	0.35	114
120	6.11	16.17	0.402	0.0	0.37	97
150	6.14	16.24	0.402	0.0	0.69	103
180	6.12	16.22	0.402	0.0	0.53	102
210	6.10	16.27	0.403	0.0	0.26	95
240	6.11	16.25	0.402	0.0	0.25	88
270	6.12	16.30	0.405	0.0	0.39	86
300	6.12	16.30	0.407	0.0	0.38	86

Purging Rate: 3 GPM
Purging Time: 100 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 3:55 p.m.

Method:

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

Analyses: (Pace Analytical Laboratory)

- X VOCs
- X Total & Dissolved Metals
- X Leachate Parameters

Observations

Weather/Temperature: Sunny, 65-70F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

APPENDIX B

CHAIN OF CUSTODY FORMS

WO# : 70234464

70234464

Pace

CHAIN-OF-CUSTODY / Analyt

The Chain-of-Custody is a LEGAL DOCUMENT

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

Section A — Required Client Information:

Company:	Town of Oyster Bay
Address:	150 Miller Place
	Syosset, NY 11791
Email:	mrusso@tobays.net
Phone:	NONE
Fax:	
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	Russo, Matt
Copy To:	
Purchase Order #:	
Project Name:	Old Bethpage Landfill
Project #:	3612-02 (Second Semi Annual POST-Remediation GW Sampling)

Section C — Invoice Information:

Attention:	MATT RUSSO
Company Name:	Town of Oyster Bay
Address:	150 Miller Place
Pace Quote:	
Pace Project Manager:	giovanna.deloca@pacelabs.com,
Pace Profile #:	6466

Regulatory Agency	State / Location
	NY

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): N N N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS					Residual Chlorine (Y/N)	
1	Trip Blank - 10/25/2022	WT	–	10/25/22	–	10/25/22	—		2	–	–	–	2	–	–	–	–		✓	–	–	–	–	–	–	–					N	VOCs, total and dissolved metals (exclude indicators field filtered for dissolved metal and (Cr+6))
2	OBS-1 - 10/25/2022	WT	G	10/25/22	3:55 pm	10/25/22	—		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓					N	
3																																
4																																
5																																
6																																
7																																
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10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B Eng	10/25/2022	18:02	[illegible] PC LI	10/25/22	18:02	8.0°	Y	N/A	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Provide category 'B' and EQuIS
Provide data to lab data @ db-eng.com
Samples denoted with F on HNO3 plastic containers were field filtered for dissolved metals and dissolved Cr+6

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins

DATE Signed: 10/25/2022

Pace Analytical®

Sample Condition Upon Rec[eipt]

WO# : 70234464

PM: GFD **Due Date: 11/09/22**

CLIENT: TOY

Client Name: TOY

Proj[ect]

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☒ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH148   Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 8.0   Cooler Temperature Corrected(°C): 8.1

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: KW 10/25/22

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

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

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

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☒ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for I	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☐ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☒ Yes	☐ No	~~☒ N/A~~	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL (WT) OIL	☒ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot # 1C29305	☒ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☒ Yes	☐ No	☐ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # 14860 Residual chlorine strips Lot #	☒ Yes	☐ No	☐ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # 960275	☒ Yes	☐ No	☐ N/A	15. Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	16.
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required?   Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Pace

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL D[ocument]...

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms a[nd Conditions ...]ms.pdf.

WO#: 70234464
PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Page: 1 Of 1

Section A — Required Client Information:		Section B — Required Project Information:		Section C — Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:		Company Name:	Town of Oyster Bay
Syosset, NY 11791				Address:	150 Miller Place
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone: NONE	Fax	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	Standard	Project #:	3763 – Old Bethpage 2nd semi-annual post formation event 2022	Pace Profile #:	6466

Regulatory Agency	
State / Location	NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): VOC by 8260 N; NH3,NO3,Phenols,TKN N; Cyanide N; Total Metals & Hardness N; Dissolved Metals (field filter) N; Dissolved Cr+6 N (Field filter); Alk,Cl,SO4,CO3,Cr6,HCO3 N; No2,TDS N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	Trip Blank - 10/21/2022	WT	–	10/26/22	–	10/26/22	–		2	–	–	–	2	–	–	–	–	✓	–	–	–	–	–	–	–	N
2	Blind Duplicate	WT	G	10/26/22	0000	10/26/22	–		8	2	1	2	2	1	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-09C - 10/26/22	WT	G	10/26/22	1:15 pm	10/26/22	–		8	2	1	2	2	1	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-09B - 10/26/22	WT	G	10/26/22	3:35 pm	10/26/22	–		8	2	1	2	2	1	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	N
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Remarks: VOCs, Leachate Indicators, total and dissolved metals. Field filtered for dissolved metals and CR(6)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Old Bethpage Landfill	Keith Robins / D&B Engineers	10/26/2022	600 pm	[signature]	10/26	18:10	0.2	Y	N	Y

Provide Category B and EQuIS
Send data to lab data @ DB engineers
Sample containers denoted with (F) were field filtered for Chromium 6 and dissolved metals

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Keith Robins
SIGNATURE of SAMPLER: Keith Robins
DATE Signed: 10-26-2022

Pace Analytical®

Sample Condition Upon Rec

WO# : 70234464

PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Client Name: Proje

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH148 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 0.2 Cooler Temperature Corrected(°C): 0.3

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: SMR 10/26

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 212521				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace

CHAIN-OF-CUSTODY / Ana

The Chain-of-Custody is a LEGAL DOCUM

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

WO# : 70234464

PM: GFD **Due Date: 11/09/22**

CLIENT: TOY

Page 1 Of 1

Section A
Required Client Information:

Company:	Town of Oyster Bay
Address:	150 Miller Place
	Syosset, NY 11791
Email	mrusso@tobays.net
Phone	NONE Fax
Requested Due Date	Standard

Section B
Required Project Information:

Report To:	Russo, Matt
Copy To:	Keith Robins (O+B)
Purchase Order #:	
Project Name:	Old Bethpage Landfill
Project #	3703 - Second Post-Remedy GW Sampling Event - 2022

Section C
Invoice Information:

Attention:	MATT Russo
Company Name:	Town of Oyster Bay
Address:	150 Miller Place, NY
Pace Quote:	
Pace Project Manager:	giovanna.deloca@pacelabs.com,
Pace Profile #:	6466

Regulatory Agency

State / Location: NY

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (field filtered)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
1	Trip Blank - 10/27/2022	WT	-	10/27/22	-		-		2	-	-	-	2	-	-	-	-	N	-	-	-	-	-	-	-	-	N	VOCs, leachate indicators, total and dissolved metals with Cr+6
2	MW-08A - 10/27/2022	WT	G	10/27/22	5:50 pm		-		8	2	1	2	2	1	-	-	-	N	✓	-	-	-	-	-	-	-	-	N	
3	MW-08B - 10/27/2022	WT	G	10/27/22	4:20 pm		-		8	2	1	2	2	1	-	-	-	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	
4	MW-05B - 10/27/2022	WT	G	10/27/22	12:15 pm		-		8	2	1	2	2	1	-	-	-	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	
5									8	2	1	2	2	1	-	-	-	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS

Old Bethpage Landfill

Provide EQuIS and Category B deliverables

Send data to lab data@dl-eng.com

Sample containers denoted with (F) were field filtered for CR+6 and dissolved metals

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Keith Robins / ARS	10/28/2022	0950	Syd P-LT	10/28	9:55

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins

DATE Signed: 10-28-2022

SAMPLE CONDITIONS			
TEMP in C	1-2	4	
Received on Ice (Y/N)	N	Y	
Custody Sealed Cooler (Y/N)			
Samples Intact (Y/N)		Y	

Pace Analytical

Client Name: Proj

PM: GFD Due Date: 11/09/22
CLIENT: TOY

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☐ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: ~~TH091~~ TH148 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.2 Cooler Temperature Corrected(°C): 1.3

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: SMR 10/28

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
--Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	~~☐ N/A~~ SMR	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	~~☐ N/A~~	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 14-862				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Town of Oyster Bay
Address:	150 Miller Place	Copy To:	Keith Robbins (D&B)	Company Name:	Matt Russo
Syosset, NY 11791				Address:	150 Miller Place, Syosset NY 11791
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone: NONE	Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	Standard	Project #:	3763 Post Termination Second Semi Annual Event 2022	Pace Profile #:	6466

Regulatory Agency:

State / Location: NY

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): VOC by 8260 N; NH3,NO3,Phenols,TKN N; Cyanide N; Total Metals & Hardness N; Dissolved Metals (field filter) N; Dissolved Cr+6 (field filtered) N; Alk,Cl,SO4,CO3,Cr6,HCO3 N; No2,TDS N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	Trip Blank 10/28/22	WT	G	10/28/22	—	10/28/22	—		2	—	—	—	2	—	—	—	—	✓	—	—	—	—	—	—	—	N
2	LF-2-10/28/22	WT	G	10/28/22	1230 pm	10/28/22	✓		8	2	1	2	2	1	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓	N
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

VOCs leachate indicators total and dissolved metals + CR+6

WO#: 70234464
PM: GFD Due Date: 11/09/22
CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Old Bethpage Landfill	Keith Robbins / D&B Engineers	10/28/22	1:15pm	[illegible] Pace LI	10/28/22	13:14	1.0	(W)	N/A	Y

Provide Category B and EDD deliverables. Send data to Lab data @ db-eng.com. Sample bottles denoted with ("F") were field filtered for CR+6 and dissolved metals

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robbins

SIGNATURE of SAMPLER: Keith Robbins DATE Signed: 10-28-2022

Pace Analytical

Client Name: Proj

PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #:
Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No ☑ N/A
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other
Thermometer Used: ~~TH091~~ TH148 Correction Factor: + 0.1
Cooler Temperature(°C): 1.6 Cooler Temperature Corrected(°C): 1.7
Temp should be above freezing to 6.0°C
USDA Regulated Soil (☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No
Type of Ice: (Wet) Blue None
☐ Samples on ice, cooling process has begun
Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: SMR 10/28

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot # HC293085	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑ Yes	☐ No	☐ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # 14-862	☑ Yes	☐ No	☐ N/A	15. Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

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

WO#: 70234464
PM: GFD Due Date: 11/09/22
CLIENT: TOY

Pace

CHAIN-OF-CUSTODY / Analytical Req

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

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

1

ction A quired Client Information:		Section B Required Project Information:		Section C Invoice Information:	
mpany	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
dress:	150 Miller Place	Copy To:	Keith Robins (D&B Engineers)	Company Name:	Town of Oyster Bay
sset, NY 11791				Address:	150 Miller Place, Syosset NY
ail:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
one	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com,
quested Due Date	Standard	Project #:	3617-07 Post Remediation 2nd Semi-annual GW Event - 2022	Pace Profile #:	6466

Regulatory Agency

[redacted] State / Location: NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (field filtered)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																		N	N	N	N	N	N	N	N		VOCs, leachate indicators, Total and dissolved metals - field filtered for dissolved CR+6 and dissolved metals
1	Trip Blank - 10/31/2022	WT	-	10/31/22	—	10/31/22	—		2	–	–	–	2	–	–	–	–		√	–	–	–	–	–	–	–	N	
2	MW-06F - 10/31/22	WT	G	10/31/22	2:15 pm	10/31/22	—		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√	N	
3	MW-06C - 10/31/22	WT	G	10/31/22	3:50 pm	10/31/22	—		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√	N	
4	MW-06A - 10/31/22	WT	G	10/31/22	5:20 pm	10/31/22	—		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√	N	
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
ld Bethpage Landfill provide Category "B" and EQuIS deliverables Send data to lab data @ db-eng.com Sample bottles denoted with (F) were field filtered for CR+6/and metals	Keith Robins / D&B Engineers	11/1/22	0940	[illegible] Pace LI	11/1/22	9:46	2.2	wet		
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 11/1/22

Pace Analytical®

Sample Condition Upon Rec

WO# : 70234464

PM: GFD **Due Date: 11/09/22**

CLIENT: TOY

Client Name: Town of Oyster Bay Projec

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

Tracking #:

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

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

Thermometer Used: TH148 Correction Factor: + 0.1

Cooler Temperature(°C): 2.2 Cooler Temperature Corrected(°C): 2.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☐ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KB, 11/1/22

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 136410-506				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☑ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins (D+B Engineers)	Company Name:	Town of Oyster Bay
	Syosset, NY 11791			Address:	150 Miller Place, Syosset NY
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com
Requested Due Date:	Standard	Project #:	3617-07 Post Termination GW Semi-annual 2nd - 2022 Event	Pace Profile #:	6466

Regulatory Agency: NY

State / Location

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field filtered)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	N	N	N	N	N	N	N	N	
1	Trip Blank - 11/1/2022	WT	-	11/1/22	-	11/1/22	-		2	-	-	-	HCl	-	-	-	-	✓	-	-	-	-	-	-	-	N
2	LF-1 - 11/1/22	WT	G	11/1/22	12:00 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-06E - 11/1/22	WT	G	11/1/22	6:45 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-06B - 11/1/22	WT	G	11/1/22	2:30 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
5	Field Blank - 11/1/22	WT	G	11/1/22	7:00 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
6																										
7																										
8																										
9																										
10																										
11																										
12																										

VOC, Leachate indicators, total and dissolved metals incl CR+6

WO#: 70234464

PM: GFD Due Date: 11/09/22

CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Old Bethpage Landfill	Keith Robins / D+B Engrs	11/2/22	1130 AM		11/2/22	11:40	1.2	Y	N	Y
provide Category "B" and Excel deliverable										
send data to Lab data@dandb-eng.com										
sample bottles designated with (F) were field filtered for dissolved CR+6 and dissolved metals.										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 11/2/22

Pace Analytical®

Sample Condition Upon Re

WO#: 70234464
PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Client Name: TOY Proj

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☒ No

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

Type of Ice: ~~Wet~~ Blue None

Thermometer Used: T#148 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.2 Cooler Temperature Corrected(°C): 1.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: KW 11/2/22

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	~~☐ N/A~~	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot #14-846				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 560125				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

APPENDIX C

DATA VALIDATION CHECKLIST

D&B ENGINEERS AND ARCHITECTS

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill
Project Number:	3617-05
Sample Date(s):	October 25-29, 2022, November 1, 2022
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 13 Field Duplicates/ 1 Trip Blanks / 6 Field Blanks/ 1
Analyzing Laboratory:	Pace Analytical, Melville, NY and Phenolics were subcontracted to Microbac Laboratories, Inc., Marietta, OH
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C Metals: Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 General Chemistry: Alkalinity (SM2320B), Hardness (SM2340B), Total Dissolved Solids (SM 2540C), Hexavalent Chromium (SM22 3500), Chloride (SM22 4500), Sulfate (USEPA 300.0), Total Kjeldahl Nitrogen (TKN) (USEPA 351.2), Nitrate-Nitrite and Nitrite (USEPA 353.2), Ammonia (SM22 4500), Phenolics (USEPA 420.1), and Cyanide (SM22 4500)
Laboratory Report No:	70234464 Date: 11/30/2022

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

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

QA - quality assurance

Comments:

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

D&B ENGINEERS AND ARCHITECTS

Custody Numbers:70234464
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	70234464001	10/25/2022		X				
OBS-1	70234464002-3	10/25/2022		X			X	X
TRIP BLANK	70234464004	10/26/2022		X				
BLIND DUPLICATE	70234464005-8	10/26/2022	MW-09C	X			X	X
MW-09C	70234464006-9	10/26/2022		X			X	X
MW-09B	7023446407-10	10/26/2022					X	X
TRIP BLANK	70234464011	10/28/2022		X				
LF-2	70234464012-13	10/28/2022		X			X	X
TRIP BLANK	70234464014	10/27/2022		X				
MW-08A	70234464015-16	10/27/2022		X			X	X
MW-08B	70234464017-18	10/27/2022		X			X	X
MW-05B	70234464019-20	10/27/2022		X			X	X
TRIP BLANK	70234464021	10/31/2022		X				
MW-06F	70234464022-23	10/31/2022		X			X	X
MW-06C	70234464024-25	10/31/2022		X			X	X
MW-06A	70234464026-27	10/31/2022		X			X	X
TRIP BLANK	70234464028	11/1/2022		X				
LF-1	70234464029-30	11/1/2022		X			X	X
MW-06E	70234464031-32	11/1/2022		X			X	X
MW-06B	70234464031-34	11/1/2022		X			X	X
FIELD BLANK	70234464035	11/1/2022		X			X	X

ORGANIC ANALYSES
VOCS

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

2C. Methylene chloride was detected in the field blank. It was not detected in the associated samples therefore qualification of the data was not necessary.

5. The %R was below the QC limit in the MS for tert-butylbenzene associated with samples TRIP BLANK, LF-1, MW-06E, MW-06B, and FIELD BLANK. It was qualified as an estimated detection limit (UJ) in associated samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. 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:

2. Total lead, dissolved calcium, dissolved iron, and dissolved potassium were detected in the blanks. The following metals were qualified as non-detect (UB): dissolved iron in samples MW-05B, MW-08A, MW-09B, MW-06F, OBS-1, BLIND DUPLICATE, and MW-09C; and total lead in samples BLIND DUPLICATE, MW-09B, and MW-09C.

4. The %Rs were below the QC limit in the matrix spike for dissolved barium associated with samples OBS-1, BLIND DUPLICATE, MW-09C, MW-09B, LF-2, MW-08A, MW-08B, MW-05B, MW-06F, MW-06C, and MW-06A and total barium associated with OBS-1. They were qualified as estimated (J).

   The %R was above the QC limit in the matrix spike for total potassium associated with samples OBS-1, MW-06F, MW-06C, and MW-06A and was qualified as estimated (J).

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X	X		
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. 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:

Numerous samples were originally analyzed for alkalinity at a dilution. Based on these results, the samples were reanalyzed at no dilution and the non-diluted results were reported.

1. The following were analyzed outside of holding times: total and dissolved hexavalent chromium associated with samples MW-05B, MW-06F, MW-06C, MW-06A, LF-1, MW-06E, MW-06B and Field Blank; nitrite associated with samples MW-06F and MW-06A; and TKN associated with sample MW-06C. They were qualified as estimated (J/UJ) in associated samples.

2. Ammonia and sulfate were detected in the blanks. The following were qualified as non-detect (UB): ammonia in samples MW-08B, MW-06F, MW-06A, and LF-1; and sulfate in sample MW-06F.

4. The RPD was above the QC limit in the duplicate for total dissolved solids associated with samples OBS-1, BLIND DUPLICATE, MW-09C, MW-09B, MW-08A, MW-08B, MW-05B, LF-2, LF-1, MW-06E, MW-06B, and FIELD BLANK and was qualified as estimated (J/UJ).

5. The %R was below the QC limit in the matrix spike for chloride associated with samples LF-2, MW-05B, MW-08A, and MW-08B and was qualified as estimated (J).

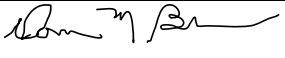
   The %R was above the QC limit in the matrix spike for sulfate associated with samples BLIND DUPLICATE, MW-09C, MW-09B LF-2, MW-08A, MW-08B, MW-05B, MW-06F, MW-06C, and MW-06A; and cyanide associated with samples LF-1, MW-06E, MW-06B, and FIELD BLANK. The following sulfates were detected and were qualified as estimated (J): BLIND DUPLICATE, MW-09C, MW-09B LF-2, MW-08A, MW-08B, MW-05B, MW-06C, and MW-06A.

D&B ENGINEERS AND ARCHITECTS

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:70234464

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
TRIP BLANK, LF-1, MW-06E, MW-06B, and FIELD BLANK	Tert-butylbenzene	UJ	The %R was below the QC limit in the MS
Metals			
MW-05B, MW-08A, MW-09B, MW-06F, OBS-1, BLIND DUPLICATE, and MW-09C	Dissolved iron	UB	Detected in the Blanks
BLIND DUPLICATE, MW-09B, and MW-09C	Total lead		
OBS-1, BLIND DUPLICATE, MW-09C, MW-09B, LF-2, MW-08A, MW-08B, MW-05B, MW-06F, MW-06C, and MW-06A	Dissolved barium	J	The %R was below the QC limit in the matrix spike
OBS-1	Total barium		
OBS-1, MW-06F, MW-06C, and MW-06A and	Total potassium	J	The %R was above the QC limit
General Chemistry			
Numerous samples	Alkalinity		Originally analyzed at a dilution, reanalyzed at no dilution and the non-diluted results were reported.
MW-05B, MW-06F, MW-06C, MW-06A, LF-1, MW-06E, MW-06B and Field Blank	Total and dissolved hexavalent chromium	J/UJ	Analyzed outside of holding times
MW-06F and MW-06A	Nitrite		
MW-06C	TKN		
MW-08B, MW-06F, MW-06A, and LF-1	Ammonia	UB	Detected in the Field Blank and/or method blank
MW-06F	Sulfate		
OBS-1, BLIND DUPLICATE, MW-09C, MW-09B, MW-08A, MW-08B, MW-05B, LF-2, LF-1, MW-06E, MW-06B, and FIELD BLANK	Total dissolved solids	J/UJ	The RPD was above QC limit in the laboratory duplicate
LF-2, MW-05B, MW-08A, and MW-08B	Chloride	J/UJ	The %R was below the QC limit in the matrix spike
BLIND DUPLICATE, MW-09C, MW-09B LF-2, MW-08A, MW-08B, MW-05B, MW-06C, and MW-06A	Sulfate	J	The %R was above the QC limit in the matrix spike

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 12/5/2022
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

November 30, 2022

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

RE: Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between October 25, 2022 and November 02, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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

- Pace Analytical Services - Melville

Phenol samples were subcontracted out Microbac Laboratories, Inc., 158 Starlite Dr., Marietta, OH 45750

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

Sincerely,

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

Enclosures

cc: Donna Brown, D&B Engineers and Architechts, P.C.
Tom Fox, D&B Engineers and Architechts, P.C.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: TRIP BLANK_10/25/2022 **Lab ID: 70234464001** Collected: 10/25/22 00:00 Received: 10/25/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/22 21:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/22 21:59	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/28/22 21:59	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 21:59	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/22 21:59	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/22 21:59	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/28/22 21:59	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/28/22 21:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	81-122	1		10/28/22 21:59	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-118	1		10/28/22 21:59	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		10/28/22 21:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: OBS-1_10/25/2022 **Lab ID: 70234464002** Collected: 10/25/22 15:55 Received: 10/25/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	10/31/22 09:39	10/31/22 17:41	7429-90-5	
Barium	**33.1J**	ug/L	200	1	10/31/22 09:39	10/31/22 17:41	7440-39-3	
Calcium	**11200**	ug/L	200	1	10/31/22 09:39	10/31/22 17:41	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/31/22 09:39	10/31/22 17:41	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/31/22 09:39	10/31/22 17:41	7440-50-8	
Iron	**23.9J**	ug/L	100	1	10/31/22 09:39	10/31/22 17:41	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/31/22 09:39	10/31/22 17:41	7439-92-1	
Magnesium	**6750**	ug/L	200	1	10/31/22 09:39	10/31/22 17:41	7439-95-4	
Manganese	**2100**	ug/L	10.0	1	10/31/22 09:39	10/31/22 17:41	7439-96-5	
Nickel	**4.5J**	ug/L	40.0	1	10/31/22 09:39	10/31/22 17:41	7440-02-0	
Potassium	**17100**	ug/L	5000	1	10/31/22 09:39	10/31/22 17:41	7440-09-7	
Sodium	**43600**	ug/L	5000	1	10/31/22 09:39	10/31/22 17:41	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	10/31/22 09:39	10/31/22 17:41	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**55800**	ug/L	830	1		10/31/22 17:41		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	10/27/22 12:19	10/28/22 10:11	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/22 22:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/22 22:43	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: OBS-1_10/25/2022 **Lab ID: 70234464002** Collected: 10/25/22 15:55 Received: 10/25/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/28/22 22:43	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:43	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/22 22:43	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/22 22:43	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/28/22 22:43	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/28/22 22:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		10/28/22 22:43	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		10/28/22 22:43	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		10/28/22 22:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**130**	mg/L	1.0	1		10/28/22 13:39		
Alkalinity,Bicarbonate (CaCO3)	**130**	mg/L	1.0	1		10/28/22 13:39		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/28/22 13:39		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**219**	mg/L	10.0	1		10/31/22 19:35		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 10:21	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**18.4**	mg/L	5.0	1		11/01/22 16:26	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**13.0**	mg/L	1.0	10	11/16/22 10:14	11/16/22 16:45	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.35**	mg/L	0.050	1		11/01/22 16:12	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/26/22 23:53	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: OBS-1_10/25/2022 **Lab ID: 70234464002** Collected: 10/25/22 15:55 Received: 10/25/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 19:38	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**62.5**	mg/L	2.0	1		10/27/22 10:32	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**12.3**	mg/L	1.0	10		10/27/22 15:27	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: OBS-1_10/25/2022 DISS **Lab ID: 70234464003** Collected: 10/25/22 15:55 Received: 10/25/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/27/22 11:20	7429-90-5	
Barium, Dissolved	**33.4J**	ug/L	200	1		10/27/22 11:20	7440-39-3	M1
Calcium, Dissolved	**11200**	ug/L	1000	1		10/27/22 11:20	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/27/22 11:20	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/27/22 11:20	7440-50-8	
Iron, Dissolved	**20.4**	ug/L	20.0	1		10/27/22 11:20	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/27/22 11:20	7439-92-1	
Magnesium, Dissolved	**6820**	ug/L	1000	1		10/27/22 11:20	7439-95-4	
Manganese, Dissolved	**2120**	ug/L	10.0	1		10/27/22 11:20	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		10/27/22 11:20	7440-02-0	
Potassium, Dissolved	**17100**	ug/L	5000	1		10/27/22 11:20	7440-09-7	
Sodium, Dissolved	**41900**	ug/L	5000	1		10/27/22 11:20	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/27/22 11:20	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.091J**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:07	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 10:22	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: TRIP BLANK_10/26/2022 **Lab ID: 70234464004** Collected: 10/26/22 00:00 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/22 22:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/22 22:21	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/28/22 22:21	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 22:21	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/22 22:21	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/22 22:21	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/28/22 22:21	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/28/22 22:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	81-122	1		10/28/22 22:21	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-118	1		10/28/22 22:21	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		10/28/22 22:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: BLIND DUPLICATE **Lab ID: 70234464005** Collected: 10/26/22 00:00 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/03/22 14:42	11/04/22 13:48	7429-90-5	
Barium	**58.0J**	ug/L	200	1	11/03/22 14:42	11/04/22 13:48	7440-39-3	
Calcium	**10500**	ug/L	200	1	11/03/22 14:42	11/04/22 13:48	7440-70-2	
Chromium	**1.6J**	ug/L	10.0	1	11/03/22 14:42	11/04/22 13:48	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/03/22 14:42	11/04/22 13:48	7440-50-8	
Iron	**41.3J**	ug/L	100	1	11/03/22 14:42	11/04/22 13:48	7439-89-6	
Lead	**2.3J**	ug/L	5.0	1	11/03/22 14:42	11/04/22 13:48	7439-92-1	B
Magnesium	**6600**	ug/L	200	1	11/03/22 14:42	11/04/22 13:48	7439-95-4	
Manganese	**233**	ug/L	10.0	1	11/03/22 14:42	11/04/22 13:48	7439-96-5	
Nickel	**7.2J**	ug/L	40.0	1	11/03/22 14:42	11/04/22 13:48	7440-02-0	
Potassium	**10200**	ug/L	5000	1	11/03/22 14:42	11/04/22 13:48	7440-09-7	
Sodium	**55300**	ug/L	5000	1	11/03/22 14:42	11/04/22 13:48	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/03/22 14:42	11/04/22 13:48	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**53400**	ug/L	830	1		11/04/22 13:48		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	10/31/22 12:40	11/01/22 11:46	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/22 23:05	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/22 23:05	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	100-41-4	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: BLIND DUPLICATE **Lab ID: 70234464005** Collected: 10/26/22 00:00 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/28/22 23:05	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:05	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/22 23:05	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/22 23:05	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/28/22 23:05	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/28/22 23:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		10/28/22 23:05	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		10/28/22 23:05	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		10/28/22 23:05	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**54.3**	mg/L	1.0	1		10/28/22 14:32		
Alkalinity,Bicarbonate (CaCO3)	**54.3**	mg/L	1.0	1		10/28/22 14:32		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/28/22 14:32		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**280**	mg/L	10.0	1		11/01/22 18:29		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 22:34	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.3**	mg/L	5.0	1		11/11/22 17:00	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**1.9**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:22	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.58**	mg/L	0.050	1		11/01/22 16:14	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/22 01:02	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: BLIND DUPLICATE **Lab ID: 70234464005** Collected: 10/26/22 00:00 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 19:52	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**108**	mg/L	10.0	5		10/30/22 15:18	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**1.3**	mg/L	0.10	1		10/31/22 14:37	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09C_10/26/22 **Lab ID: 70234464006** Collected: 10/26/22 13:15 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/03/22 14:42	11/04/22 14:07	7429-90-5	
Barium	**59.4J**	ug/L	200	1	11/03/22 14:42	11/04/22 14:07	7440-39-3	
Calcium	**10700**	ug/L	200	1	11/03/22 14:42	11/04/22 14:07	7440-70-2	
Chromium	**1.3J**	ug/L	10.0	1	11/03/22 14:42	11/04/22 14:07	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/03/22 14:42	11/04/22 14:07	7440-50-8	
Iron	**38.1J**	ug/L	100	1	11/03/22 14:42	11/04/22 14:07	7439-89-6	
Lead	**2.4J**	ug/L	5.0	1	11/03/22 14:42	11/04/22 14:07	7439-92-1	B
Magnesium	**6800**	ug/L	200	1	11/03/22 14:42	11/04/22 14:07	7439-95-4	
Manganese	**241**	ug/L	10.0	1	11/03/22 14:42	11/04/22 14:07	7439-96-5	
Nickel	**6.2J**	ug/L	40.0	1	11/03/22 14:42	11/04/22 14:07	7440-02-0	
Potassium	**9890**	ug/L	5000	1	11/03/22 14:42	11/04/22 14:07	7440-09-7	
Sodium	**56600**	ug/L	5000	1	11/03/22 14:42	11/04/22 14:07	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/03/22 14:42	11/04/22 14:07	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**54700**	ug/L	830	1		11/04/22 14:07		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	10/31/22 12:40	11/01/22 11:51	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/22 23:27	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/22 23:27	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09C_10/26/22 **Lab ID: 70234464006** Collected: 10/26/22 13:15 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/28/22 23:27	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:27	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/22 23:27	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/22 23:27	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/28/22 23:27	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/28/22 23:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	81-122	1		10/28/22 23:27	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-118	1		10/28/22 23:27	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		10/28/22 23:27	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**52.9**	mg/L	1.0	1		11/09/22 11:15		
Alkalinity,Bicarbonate (CaCO3)	**52.9**	mg/L	1.0	1		11/09/22 11:15		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/22 11:15		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**266**	mg/L	10.0	1		11/01/22 18:30		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 22:36	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.9**	mg/L	5.0	1		11/11/22 17:14	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**1.7**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:23	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.57**	mg/L	0.050	1		11/01/22 16:16	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/22 01:30	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09C_10/26/22 **Lab ID: 70234464006** Collected: 10/26/22 13:15 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 19:53	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**105**	mg/L	10.0	5		10/30/22 15:19	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**1.3**	mg/L	0.10	1		10/31/22 14:39	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09B_10/26/22 **Lab ID: 70234464007** Collected: 10/26/22 15:30 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/03/22 14:42	11/04/22 14:09	7429-90-5	
Barium	**83.7J**	ug/L	200	1	11/03/22 14:42	11/04/22 14:09	7440-39-3	
Calcium	**11700**	ug/L	200	1	11/03/22 14:42	11/04/22 14:09	7440-70-2	
Chromium	**1.3J**	ug/L	10.0	1	11/03/22 14:42	11/04/22 14:09	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/03/22 14:42	11/04/22 14:09	7440-50-8	
Iron	**21.8J**	ug/L	100	1	11/03/22 14:42	11/04/22 14:09	7439-89-6	
Lead	**3.6J**	ug/L	5.0	1	11/03/22 14:42	11/04/22 14:09	7439-92-1	B
Magnesium	**5890**	ug/L	200	1	11/03/22 14:42	11/04/22 14:09	7439-95-4	
Manganese	**2330**	ug/L	10.0	1	11/03/22 14:42	11/04/22 14:09	7439-96-5	
Nickel	**5.8J**	ug/L	40.0	1	11/03/22 14:42	11/04/22 14:09	7440-02-0	
Potassium	**9200**	ug/L	5000	1	11/03/22 14:42	11/04/22 14:09	7440-09-7	
Sodium	**54300**	ug/L	5000	1	11/03/22 14:42	11/04/22 14:09	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/03/22 14:42	11/04/22 14:09	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**53500**	ug/L	830	1		11/04/22 14:09		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	10/31/22 12:40	11/01/22 11:52	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/22 23:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/22 23:49	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	100-41-4	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09B_10/26/22 **Lab ID: 70234464007** Collected: 10/26/22 15:30 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/28/22 23:49	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/22 23:49	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/22 23:49	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/22 23:49	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/28/22 23:49	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/28/22 23:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	81-122	1		10/28/22 23:49	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		10/28/22 23:49	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		10/28/22 23:49	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**43.4**	mg/L	1.0	1		11/09/22 11:21		
Alkalinity,Bicarbonate (CaCO3)	**43.4**	mg/L	1.0	1		11/09/22 11:21		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/22 11:21		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**261**	mg/L	10.0	1		11/01/22 18:31		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 22:37	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**21.7**	mg/L	5.0	1		11/11/22 18:08	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**0.39**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:24	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.9**	mg/L	0.25	5		11/01/22 16:17	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/22 01:37	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09B_10/26/22 **Lab ID: 70234464007** Collected: 10/26/22 15:30 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 19:54	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**101**	mg/L	10.0	5		10/30/22 15:20	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.81**	mg/L	0.10	1		10/31/22 14:40	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: BLIND DUPLICATE DISS **Lab ID: 70234464008** Collected: 10/26/22 00:00 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/28/22 14:58	7429-90-5	
Barium, Dissolved	**60.7J**	ug/L	200	1		10/28/22 14:58	7440-39-3	M1
Calcium, Dissolved	**10900**	ug/L	1000	1		10/28/22 14:58	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/28/22 14:58	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/28/22 14:58	7440-50-8	
Iron, Dissolved	**27.6**	ug/L	20.0	1		10/28/22 14:58	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/28/22 14:58	7439-92-1	
Magnesium, Dissolved	**6760**	ug/L	1000	1		10/28/22 14:58	7439-95-4	
Manganese, Dissolved	**245**	ug/L	10.0	1		10/28/22 14:58	7439-96-5	
Nickel, Dissolved	**6.8J**	ug/L	40.0	1		10/28/22 14:58	7440-02-0	
Potassium, Dissolved	**10200**	ug/L	5000	1		10/28/22 14:58	7440-09-7	
Sodium, Dissolved	**60500**	ug/L	5000	1		10/28/22 14:58	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/28/22 14:58	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.089J**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:11	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 22:36	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09C_10/26/22 DISS **Lab ID: 70234464009** Collected: 10/26/22 13:15 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/28/22 15:09	7429-90-5	
Barium, Dissolved	**61.6J**	ug/L	200	1		10/28/22 15:09	7440-39-3	
Calcium, Dissolved	**11000**	ug/L	1000	1		10/28/22 15:09	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/28/22 15:09	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/28/22 15:09	7440-50-8	
Iron, Dissolved	**29.3**	ug/L	20.0	1		10/28/22 15:09	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/28/22 15:09	7439-92-1	
Magnesium, Dissolved	**6820**	ug/L	1000	1		10/28/22 15:09	7439-95-4	
Manganese, Dissolved	**248**	ug/L	10.0	1		10/28/22 15:09	7439-96-5	
Nickel, Dissolved	**6.8J**	ug/L	40.0	1		10/28/22 15:09	7440-02-0	
Potassium, Dissolved	**10300**	ug/L	5000	1		10/28/22 15:09	7440-09-7	
Sodium, Dissolved	**61000**	ug/L	5000	1		10/28/22 15:09	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/28/22 15:09	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:12	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 22:37	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-09B_10/26/22 DISS **Lab ID: 70234464010** Collected: 10/26/22 15:35 Received: 10/26/22 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/28/22 15:11	7429-90-5	
Barium, Dissolved	**85.3J**	ug/L	200	1		10/28/22 15:11	7440-39-3	
Calcium, Dissolved	**11800**	ug/L	1000	1		10/28/22 15:11	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/28/22 15:11	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/28/22 15:11	7440-50-8	
Iron, Dissolved	**14.6J**	ug/L	20.0	1		10/28/22 15:11	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/28/22 15:11	7439-92-1	
Magnesium, Dissolved	**5820**	ug/L	1000	1		10/28/22 15:11	7439-95-4	
Manganese, Dissolved	**2410**	ug/L	10.0	1		10/28/22 15:11	7439-96-5	
Nickel, Dissolved	**5.0J**	ug/L	40.0	1		10/28/22 15:11	7440-02-0	
Potassium, Dissolved	**9490**	ug/L	5000	1		10/28/22 15:11	7440-09-7	
Sodium, Dissolved	**58500**	ug/L	5000	1		10/28/22 15:11	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/28/22 15:11	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:14	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/26/22 22:37	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: TRIP BLANK_10/28/22 **Lab ID: 70234464011** Collected: 10/28/22 00:00 Received: 10/28/22 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/02/22 18:18	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/02/22 18:18	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/02/22 18:18	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:18	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/02/22 18:18	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/02/22 18:18	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/02/22 18:18	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/02/22 18:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		11/02/22 18:18	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		11/02/22 18:18	460-00-4	
Toluene-d8 (S)	105	%	82-122	1		11/02/22 18:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-2_10/28/22 **Lab ID: 70234464012** Collected: 10/28/22 12:30 Received: 10/28/22 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/07/22 07:23	11/07/22 15:28	7429-90-5	
Barium	**53.7J**	ug/L	200	1	11/07/22 07:23	11/07/22 15:28	7440-39-3	
Calcium	**48100**	ug/L	200	1	11/07/22 07:23	11/07/22 15:28	7440-70-2	
Chromium	**4.3J**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:28	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/07/22 07:23	11/07/22 15:28	7440-50-8	
Iron	**10500**	ug/L	100	1	11/07/22 07:23	11/07/22 15:28	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/07/22 07:23	11/07/22 15:28	7439-92-1	
Magnesium	**29400**	ug/L	200	1	11/07/22 07:23	11/07/22 15:28	7439-95-4	
Manganese	**183**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:28	7439-96-5	
Nickel	**12.3J**	ug/L	40.0	1	11/07/22 07:23	11/07/22 15:28	7440-02-0	
Potassium	**88200**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:28	7440-09-7	
Sodium	**295000**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:28	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/07/22 07:23	11/07/22 15:28	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**241000**	ug/L	830	1		11/07/22 15:28		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/01/22 13:00	11/02/22 13:28	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/02/22 19:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/02/22 19:02	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	100-41-4	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-2_10/28/22 **Lab ID: 70234464012** Collected: 10/28/22 12:30 Received: 10/28/22 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/02/22 19:02	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:02	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/02/22 19:02	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/02/22 19:02	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/02/22 19:02	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/02/22 19:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		11/02/22 19:02	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		11/02/22 19:02	460-00-4	
Toluene-d8 (S)	104	%	82-122	1		11/02/22 19:02	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1130**	mg/L	5.0	1		10/31/22 19:25		
Alkalinity,Bicarbonate (CaCO3)	**1130**	mg/L	5.0	1		10/31/22 19:25		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/31/22 19:25		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1240**	mg/L	200	1		11/03/22 19:15		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/22 10:48	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**53.6**	mg/L	25.0	5		11/22/22 08:01	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**85.6**	mg/L	5.0	10	11/16/22 10:14	11/16/22 16:46	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		11/09/22 16:08	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/29/22 19:41	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-2_10/28/22 **Lab ID: 70234464012** Collected: 10/28/22 12:30 Received: 10/28/22 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 20:05	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**248**	mg/L	20.0	10		11/02/22 10:39	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**81.3**	mg/L	2.0	20		11/01/22 13:10	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-2_10/28/22 DISS **Lab ID: 70234464013** Collected: 10/28/22 12:30 Received: 10/28/22 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/31/22 13:36	7429-90-5	
Barium, Dissolved	**55.8J**	ug/L	200	1		10/31/22 13:36	7440-39-3	M1
Calcium, Dissolved	**50100**	ug/L	1000	1		10/31/22 13:36	7440-70-2	
Chromium, Dissolved	**4.0J**	ug/L	10.0	1		10/31/22 13:36	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/31/22 13:36	7440-50-8	
Iron, Dissolved	**11300**	ug/L	20.0	1		10/31/22 13:36	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/31/22 13:36	7439-92-1	
Magnesium, Dissolved	**29500**	ug/L	1000	1		10/31/22 13:36	7439-95-4	
Manganese, Dissolved	**190**	ug/L	10.0	1		10/31/22 13:36	7439-96-5	
Nickel, Dissolved	**11.2J**	ug/L	40.0	1		10/31/22 13:36	7440-02-0	
Potassium, Dissolved	**92500**	ug/L	5000	1		10/31/22 13:36	7440-09-7	
Sodium, Dissolved	**311000**	ug/L	5000	1		10/31/22 13:36	7440-23-5	M1
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/31/22 13:36	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:15	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/22 10:51	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: TRIP BLANK_10/27/2022 **Lab ID: 70234464014** Collected: 10/27/22 00:00 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/02/22 18:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/02/22 18:40	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/02/22 18:40	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 18:40	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/02/22 18:40	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/02/22 18:40	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/02/22 18:40	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/02/22 18:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	81-122	1		11/02/22 18:40	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		11/02/22 18:40	460-00-4	
Toluene-d8 (S)	104	%	82-122	1		11/02/22 18:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08A_10/27/2022 **Lab ID: 70234464015** Collected: 10/27/22 17:50 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**73.2J**	ug/L	200	1	11/07/22 07:23	11/07/22 15:30	7429-90-5	
Barium	**53.0J**	ug/L	200	1	11/07/22 07:23	11/07/22 15:30	7440-39-3	
Calcium	**4330**	ug/L	200	1	11/07/22 07:23	11/07/22 15:30	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:30	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/07/22 07:23	11/07/22 15:30	7440-50-8	
Iron	**27.6J**	ug/L	100	1	11/07/22 07:23	11/07/22 15:30	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/07/22 07:23	11/07/22 15:30	7439-92-1	
Magnesium	**4290**	ug/L	200	1	11/07/22 07:23	11/07/22 15:30	7439-95-4	
Manganese	**98.0**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:30	7439-96-5	
Nickel	**10.1J**	ug/L	40.0	1	11/07/22 07:23	11/07/22 15:30	7440-02-0	
Potassium	**3820J**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:30	7440-09-7	
Sodium	**14400**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:30	7440-23-5	
Zinc	**11.8J**	ug/L	20.0	1	11/07/22 07:23	11/07/22 15:30	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**28500**	ug/L	830	1		11/07/22 15:30		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/01/22 13:00	11/02/22 13:32	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/02/22 19:24	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		11/02/22 19:24	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-35-4	
cis-1,2-Dichloroethene	**6.6**	ug/L	1.0	1		11/02/22 19:24	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08A_10/27/2022 **Lab ID: 70234464015** Collected: 10/27/22 17:50 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/02/22 19:24	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-09-2	
Tetrachloroethene	**7.0**	ug/L	1.0	1		11/02/22 19:24	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:24	71-55-6	
Trichloroethene	**1.3**	ug/L	1.0	1		11/02/22 19:24	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/02/22 19:24	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/02/22 19:24	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/02/22 19:24	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/02/22 19:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	81-122	1		11/02/22 19:24	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		11/02/22 19:24	460-00-4	
Toluene-d8 (S)	105	%	82-122	1		11/02/22 19:24	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**3.0**	mg/L	1.0	1		11/10/22 17:33		
Alkalinity,Bicarbonate (CaCO3)	**3.0**	mg/L	1.0	1		11/10/22 17:33		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/10/22 17:33		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**3.5J**	mg/L	5.0	1		10/31/22 19:28		
Alkalinity,Bicarbonate (CaCO3)	**3.5J**	mg/L	5.0	1		10/31/22 19:28		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/31/22 19:28		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**128**	mg/L	10.0	1		11/02/22 20:55		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/22 13:00	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**22.7**	mg/L	5.0	1		11/18/22 23:05	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:26	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08A_10/27/2022 **Lab ID: 70234464015** Collected: 10/27/22 17:50 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**1.5**	mg/L	0.050	1		11/09/22 16:13	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/22 22:56	14797-65-0	
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 20:06	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**29.1**	mg/L	2.0	1		11/02/22 10:40	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		11/01/22 11:39	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08A_10/27/2022 DISS **Lab ID: 70234464016** Collected: 10/27/22 17:50 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**56.4J**	ug/L	200	1		10/31/22 13:47	7429-90-5	
Barium, Dissolved	**55.0J**	ug/L	200	1		10/31/22 13:47	7440-39-3	
Calcium, Dissolved	**4680**	ug/L	1000	1		10/31/22 13:47	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/31/22 13:47	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/31/22 13:47	7440-50-8	
Iron, Dissolved	**11.6J**	ug/L	20.0	1		10/31/22 13:47	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/31/22 13:47	7439-92-1	
Magnesium, Dissolved	**4510**	ug/L	1000	1		10/31/22 13:47	7439-95-4	
Manganese, Dissolved	**96.8**	ug/L	10.0	1		10/31/22 13:47	7439-96-5	
Nickel, Dissolved	**9.5J**	ug/L	40.0	1		10/31/22 13:47	7440-02-0	
Potassium, Dissolved	**4190J**	ug/L	5000	1		10/31/22 13:47	7440-09-7	
Sodium, Dissolved	**16000**	ug/L	5000	1		10/31/22 13:47	7440-23-5	
Zinc, Dissolved	**14.3J**	ug/L	20.0	1		10/31/22 13:47	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:16	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/22 13:01	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08B_10/27/2022 **Lab ID: 70234464017** Collected: 10/27/22 16:20 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/07/22 07:23	11/07/22 15:51	7429-90-5	
Barium	**59.8J**	ug/L	200	1	11/07/22 07:23	11/07/22 15:51	7440-39-3	
Calcium	**14000**	ug/L	200	1	11/07/22 07:23	11/07/22 15:51	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:51	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/07/22 07:23	11/07/22 15:51	7440-50-8	
Iron	**<100**	ug/L	100	1	11/07/22 07:23	11/07/22 15:51	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/07/22 07:23	11/07/22 15:51	7439-92-1	
Magnesium	**3960**	ug/L	200	1	11/07/22 07:23	11/07/22 15:51	7439-95-4	
Manganese	**496**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:51	7439-96-5	
Nickel	**14.5J**	ug/L	40.0	1	11/07/22 07:23	11/07/22 15:51	7440-02-0	
Potassium	**7720**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:51	7440-09-7	
Sodium	**96100**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:51	7440-23-5	
Zinc	**24.1**	ug/L	20.0	1	11/07/22 07:23	11/07/22 15:51	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**51300**	ug/L	830	1		11/07/22 15:51		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/01/22 13:00	11/02/22 13:34	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/02/22 19:47	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/02/22 19:47	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08B_10/27/2022 **Lab ID: 70234464017** Collected: 10/27/22 16:20 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/02/22 19:47	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 19:47	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/02/22 19:47	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/02/22 19:47	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/02/22 19:47	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/02/22 19:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		11/02/22 19:47	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		11/02/22 19:47	460-00-4	
Toluene-d8 (S)	105	%	82-122	1		11/02/22 19:47	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**12.0**	mg/L	1.0	1		11/10/22 17:38		
Alkalinity,Bicarbonate (CaCO3)	**12.0**	mg/L	1.0	1		11/10/22 17:38		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/10/22 17:38		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**20.6**	mg/L	5.0	1		10/31/22 19:32		
Alkalinity,Bicarbonate (CaCO3)	**20.6**	mg/L	5.0	1		10/31/22 19:32		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/31/22 19:32		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**349**	mg/L	10.0	1		11/02/22 21:04		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/22 12:59	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**27.7**	mg/L	5.0	1		11/18/22 23:19	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:28	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08B_10/27/2022 **Lab ID: 70234464017** Collected: 10/27/22 16:20 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.5**	mg/L	0.10	2		11/09/22 16:14	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/22 22:57	14797-65-0	
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 20:07	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**179**	mg/L	20.0	10		11/02/22 10:43	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.071J**	mg/L	0.10	1		11/01/22 11:43	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-08B_10/27/2022 DISS **Lab ID: 70234464018** Collected: 10/27/22 16:20 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/31/22 13:50	7429-90-5	
Barium, Dissolved	**59.0J**	ug/L	200	1		10/31/22 13:50	7440-39-3	
Calcium, Dissolved	**14400**	ug/L	1000	1		10/31/22 13:50	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/31/22 13:50	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/31/22 13:50	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/31/22 13:50	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/31/22 13:50	7439-92-1	
Magnesium, Dissolved	**4020**	ug/L	1000	1		10/31/22 13:50	7439-95-4	
Manganese, Dissolved	**489**	ug/L	10.0	1		10/31/22 13:50	7439-96-5	
Nickel, Dissolved	**13.3J**	ug/L	40.0	1		10/31/22 13:50	7440-02-0	
Potassium, Dissolved	**7890**	ug/L	5000	1		10/31/22 13:50	7440-09-7	
Sodium, Dissolved	**97000**	ug/L	5000	1		10/31/22 13:50	7440-23-5	
Zinc, Dissolved	**24.5**	ug/L	20.0	1		10/31/22 13:50	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.10J**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:21	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/22 13:00	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-05B_10/27/2022 **Lab ID: 70234464019** Collected: 10/27/22 12:15 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/07/22 07:23	11/07/22 15:53	7429-90-5	
Barium	**40.7J**	ug/L	200	1	11/07/22 07:23	11/07/22 15:53	7440-39-3	
Calcium	**12200**	ug/L	200	1	11/07/22 07:23	11/07/22 15:53	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:53	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/07/22 07:23	11/07/22 15:53	7440-50-8	
Iron	**<100**	ug/L	100	1	11/07/22 07:23	11/07/22 15:53	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/07/22 07:23	11/07/22 15:53	7439-92-1	
Magnesium	**4960**	ug/L	200	1	11/07/22 07:23	11/07/22 15:53	7439-95-4	
Manganese	**2660**	ug/L	10.0	1	11/07/22 07:23	11/07/22 15:53	7439-96-5	
Nickel	**8.7J**	ug/L	40.0	1	11/07/22 07:23	11/07/22 15:53	7440-02-0	
Potassium	**9010**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:53	7440-09-7	
Sodium	**57000**	ug/L	5000	1	11/07/22 07:23	11/07/22 15:53	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/07/22 07:23	11/07/22 15:53	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**50900**	ug/L	830	1		11/07/22 15:53		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/01/22 13:00	11/02/22 13:35	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/02/22 20:09	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/02/22 20:09	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	100-41-4	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-05B_10/27/2022 **Lab ID: 70234464019** Collected: 10/27/22 12:15 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/02/22 20:09	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/02/22 20:09	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/02/22 20:09	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/02/22 20:09	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/02/22 20:09	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/02/22 20:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		11/02/22 20:09	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		11/02/22 20:09	460-00-4	
Toluene-d8 (S)	106	%	82-122	1		11/02/22 20:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**40.6**	mg/L	1.0	1		11/10/22 17:45		
Alkalinity,Bicarbonate (CaCO3)	**40.6**	mg/L	1.0	1		11/10/22 17:45		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/10/22 17:45		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**68.9**	mg/L	5.0	1		10/31/22 19:34		
Alkalinity,Bicarbonate (CaCO3)	**68.9**	mg/L	5.0	1		10/31/22 19:34		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/31/22 19:34		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**261**	mg/L	10.0	1		11/02/22 21:05		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/22 12:57	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.0**	mg/L	5.0	1		11/19/22 00:13	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**0.12**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:29	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-05B_10/27/2022 **Lab ID: 70234464019** Collected: 10/27/22 12:15 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**3.5**	mg/L	0.10	2		11/09/22 16:15	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/22 22:58	14797-65-0	
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/07/22 16:30	11/07/22 20:08	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**98.9**	mg/L	20.0	10		11/02/22 10:43	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		11/01/22 11:44	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-05B_10/27/2022 DISS **Lab ID: 70234464020** Collected: 10/27/22 12:15 Received: 10/28/22 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/31/22 13:52	7429-90-5	
Barium, Dissolved	**40.8J**	ug/L	200	1		10/31/22 13:52	7440-39-3	
Calcium, Dissolved	**12600**	ug/L	1000	1		10/31/22 13:52	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/31/22 13:52	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/31/22 13:52	7440-50-8	
Iron, Dissolved	**8.4J**	ug/L	20.0	1		10/31/22 13:52	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/31/22 13:52	7439-92-1	
Magnesium, Dissolved	**5100**	ug/L	1000	1		10/31/22 13:52	7439-95-4	
Manganese, Dissolved	**2640**	ug/L	10.0	1		10/31/22 13:52	7439-96-5	
Nickel, Dissolved	**7.7J**	ug/L	40.0	1		10/31/22 13:52	7440-02-0	
Potassium, Dissolved	**9380**	ug/L	5000	1		10/31/22 13:52	7440-09-7	
Sodium, Dissolved	**59400**	ug/L	5000	1		10/31/22 13:52	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/31/22 13:52	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:22	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/22 12:59	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: TRIP BLANK_10/31/2022 **Lab ID: 70234464021** Collected: 10/31/22 00:00 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/22 20:10	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/22 20:10	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/06/22 20:10	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:10	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/22 20:10	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/22 20:10	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/22 20:10	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/22 20:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	81-122	1		11/06/22 20:10	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		11/06/22 20:10	460-00-4	
Toluene-d8 (S)	105	%	82-122	1		11/06/22 20:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06F_10/31/22 **Lab ID: 70234464022** Collected: 10/31/22 14:15 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**237**	ug/L	200	1	11/08/22 10:00	11/09/22 16:03	7429-90-5	
Barium	**255**	ug/L	200	1	11/08/22 10:00	11/09/22 16:03	7440-39-3	
Calcium	**44400**	ug/L	200	1	11/08/22 10:00	11/09/22 16:03	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/08/22 10:00	11/09/22 16:03	7440-47-3	
Copper	**6.8J**	ug/L	25.0	1	11/08/22 10:00	11/09/22 16:03	7440-50-8	
Iron	**77.9J**	ug/L	100	1	11/08/22 10:00	11/09/22 16:03	7439-89-6	
Lead	**3.6J**	ug/L	5.0	1	11/08/22 10:00	11/09/22 16:03	7439-92-1	
Magnesium	**17400**	ug/L	200	1	11/08/22 10:00	11/09/22 16:03	7439-95-4	
Manganese	**143**	ug/L	10.0	1	11/08/22 10:00	11/09/22 16:03	7439-96-5	
Nickel	**38.2J**	ug/L	40.0	1	11/08/22 10:00	11/09/22 16:03	7440-02-0	
Potassium	**10400**	ug/L	5000	1	11/08/22 10:00	11/09/22 16:03	7440-09-7	
Sodium	**182000**	ug/L	5000	1	11/08/22 10:00	11/09/22 16:03	7440-23-5	
Zinc	**27.2**	ug/L	20.0	1	11/08/22 10:00	11/09/22 16:03	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**183000**	ug/L	830	1		11/09/22 16:03		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.38**	ug/L	0.20	1	11/03/22 10:10	11/03/22 14:35	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/22 20:33	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/22 20:33	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06F_10/31/22 **Lab ID: 70234464022** Collected: 10/31/22 14:15 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/06/22 20:33	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:33	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/22 20:33	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/22 20:33	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/22 20:33	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/22 20:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	81-122	1		11/06/22 20:33	17060-07-0	
4-Bromofluorobenzene (S)	89	%	79-118	1		11/06/22 20:33	460-00-4	
Toluene-d8 (S)	104	%	82-122	1		11/06/22 20:33	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		11/11/22 14:01		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/11/22 14:01		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/11/22 14:01		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<5.0**	mg/L	5.0	1		11/08/22 19:51		
Alkalinity,Bicarbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/08/22 19:51		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/08/22 19:51		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**774**	mg/L	20.0	1		11/04/22 17:25		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/02/22 02:31	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.59J**	mg/L	5.0	1		11/19/22 00:26	14808-79-8	B
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**0.11**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:32	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06F_10/31/22 **Lab ID: 70234464022** Collected: 10/31/22 14:15 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**4.0**	mg/L	0.25	5		11/11/22 19:54	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/02/22 23:38	14797-65-0	H1
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/08/22 16:10	11/08/22 17:52	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**443**	mg/L	20.0	10		11/03/22 14:31	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.17**	mg/L	0.10	1		11/03/22 12:30	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06F_10/31/22 DISS **Lab ID: 70234464023** Collected: 10/31/22 14:15 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**154J**	ug/L	200	1		11/02/22 15:10	7429-90-5	
Barium, Dissolved	**241**	ug/L	200	1		11/02/22 15:10	7440-39-3	M1
Calcium, Dissolved	**43400**	ug/L	1000	1		11/02/22 15:10	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/22 15:10	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/22 15:10	7440-50-8	
Iron, Dissolved	**19.6J**	ug/L	20.0	1		11/02/22 15:10	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/22 15:10	7439-92-1	
Magnesium, Dissolved	**16800**	ug/L	1000	1		11/02/22 15:10	7439-95-4	
Manganese, Dissolved	**129**	ug/L	10.0	1		11/02/22 15:10	7439-96-5	
Nickel, Dissolved	**30.8J**	ug/L	40.0	1		11/02/22 15:10	7440-02-0	
Potassium, Dissolved	**10400**	ug/L	5000	1		11/02/22 15:10	7440-09-7	
Sodium, Dissolved	**168000**	ug/L	5000	1		11/02/22 15:10	7440-23-5	M1
Zinc, Dissolved	**24.2**	ug/L	20.0	1		11/02/22 15:10	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.11J**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:23	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/02/22 02:32	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06C_10/31/22 **Lab ID: 70234464024** Collected: 10/31/22 15:50 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/08/22 10:00	11/09/22 16:05	7429-90-5	
Barium	**36.5J**	ug/L	200	1	11/08/22 10:00	11/09/22 16:05	7440-39-3	
Calcium	**63000**	ug/L	200	1	11/08/22 10:00	11/09/22 16:05	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/08/22 10:00	11/09/22 16:05	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/08/22 10:00	11/09/22 16:05	7440-50-8	
Iron	**6890**	ug/L	100	1	11/08/22 10:00	11/09/22 16:05	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/08/22 10:00	11/09/22 16:05	7439-92-1	
Magnesium	**14800**	ug/L	200	1	11/08/22 10:00	11/09/22 16:05	7439-95-4	
Manganese	**188**	ug/L	10.0	1	11/08/22 10:00	11/09/22 16:05	7439-96-5	
Nickel	**16.0J**	ug/L	40.0	1	11/08/22 10:00	11/09/22 16:05	7440-02-0	
Potassium	**56200**	ug/L	5000	1	11/08/22 10:00	11/09/22 16:05	7440-09-7	
Sodium	**265000**	ug/L	5000	1	11/08/22 10:00	11/09/22 16:05	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/08/22 10:00	11/09/22 16:05	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**218000**	ug/L	830	1		11/09/22 16:05		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/03/22 10:10	11/03/22 14:37	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/22 20:55	56-23-5	
Chlorobenzene	**1.9**	ug/L	1.0	1		11/06/22 20:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/22 20:55	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	541-73-1	
1,4-Dichlorobenzene	**1.2**	ug/L	1.0	1		11/06/22 20:55	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06C_10/31/22 **Lab ID: 70234464024** Collected: 10/31/22 15:50 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**1.5**	ug/L	1.0	1		11/06/22 20:55	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 20:55	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/22 20:55	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/22 20:55	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/22 20:55	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/22 20:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	81-122	1		11/06/22 20:55	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-118	1		11/06/22 20:55	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		11/06/22 20:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**664**	mg/L	1.0	1		11/11/22 14:28		
Alkalinity,Bicarbonate (CaCO3)	**664**	mg/L	1.0	1		11/11/22 14:28		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/11/22 14:28		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**740**	mg/L	5.0	1		11/08/22 19:56		
Alkalinity,Bicarbonate (CaCO3)	**740**	mg/L	5.0	1		11/08/22 19:56		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/08/22 19:56		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**900**	mg/L	200	1		11/04/22 17:26		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/02/22 02:32	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**5.3**	mg/L	5.0	1		11/19/22 00:40	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**55.0**	mg/L	5.0	10	11/30/22 05:45	11/30/22 13:38	7727-37-9	H1,H2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06C_10/31/22 **Lab ID: 70234464024** Collected: 10/31/22 15:50 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		11/11/22 19:24	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/02/22 23:39	14797-65-0	H1
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/08/22 16:10	11/08/22 17:53	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**281**	mg/L	10.0	5		11/03/22 14:17	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**53.2**	mg/L	5.0	50		11/03/22 12:43	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06C_10/31/22 DISS **Lab ID: 70234464025** Collected: 10/31/22 15:50 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/22 15:21	7429-90-5	
Barium, Dissolved	**24.1J**	ug/L	200	1		11/02/22 15:21	7440-39-3	
Calcium, Dissolved	**56400**	ug/L	1000	1		11/02/22 15:21	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/22 15:21	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/22 15:21	7440-50-8	
Iron, Dissolved	**3250**	ug/L	20.0	1		11/02/22 15:21	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/22 15:21	7439-92-1	
Magnesium, Dissolved	**13400**	ug/L	1000	1		11/02/22 15:21	7439-95-4	
Manganese, Dissolved	**105**	ug/L	10.0	1		11/02/22 15:21	7439-96-5	
Nickel, Dissolved	**13.4J**	ug/L	40.0	1		11/02/22 15:21	7440-02-0	
Potassium, Dissolved	**53300**	ug/L	5000	1		11/02/22 15:21	7440-09-7	
Sodium, Dissolved	**240000**	ug/L	5000	1		11/02/22 15:21	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/22 15:21	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:25	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/02/22 02:32	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06A_10/31/22 **Lab ID: 70234464026** Collected: 10/31/22 17:20 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/08/22 10:00	11/09/22 16:08	7429-90-5	
Barium	**49.1J**	ug/L	200	1	11/08/22 10:00	11/09/22 16:08	7440-39-3	
Calcium	**3530**	ug/L	200	1	11/08/22 10:00	11/09/22 16:08	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/08/22 10:00	11/09/22 16:08	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/08/22 10:00	11/09/22 16:08	7440-50-8	
Iron	**224**	ug/L	100	1	11/08/22 10:00	11/09/22 16:08	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/08/22 10:00	11/09/22 16:08	7439-92-1	
Magnesium	**3640**	ug/L	200	1	11/08/22 10:00	11/09/22 16:08	7439-95-4	
Manganese	**19.0**	ug/L	10.0	1	11/08/22 10:00	11/09/22 16:08	7439-96-5	
Nickel	**10.0J**	ug/L	40.0	1	11/08/22 10:00	11/09/22 16:08	7440-02-0	
Potassium	**2750J**	ug/L	5000	1	11/08/22 10:00	11/09/22 16:08	7440-09-7	
Sodium	**13200**	ug/L	5000	1	11/08/22 10:00	11/09/22 16:08	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/08/22 10:00	11/09/22 16:08	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**23800**	ug/L	830	1		11/09/22 16:08		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/03/22 10:10	11/03/22 14:38	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/22 21:18	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/22 21:18	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06A_10/31/22 **Lab ID: 70234464026** Collected: 10/31/22 17:20 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/06/22 21:18	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/22 21:18	71-55-6	
Trichloroethene	**7.7**	ug/L	1.0	1		11/06/22 21:18	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/22 21:18	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/22 21:18	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/22 21:18	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/22 21:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	81-122	1		11/06/22 21:18	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-118	1		11/06/22 21:18	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		11/06/22 21:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**3.6**	mg/L	1.0	1		11/11/22 14:33		
Alkalinity,Bicarbonate (CaCO3)	**3.6**	mg/L	1.0	1		11/11/22 14:33		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/11/22 14:33		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**4.0J**	mg/L	5.0	1		11/08/22 19:59		
Alkalinity,Bicarbonate (CaCO3)	**4.0J**	mg/L	5.0	1		11/08/22 19:59		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/08/22 19:59		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**94.0**	mg/L	10.0	1		11/04/22 17:35		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/02/22 02:33	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**5.8**	mg/L	5.0	1		11/19/22 00:54	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:33	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06A_10/31/22 **Lab ID: 70234464026** Collected: 10/31/22 17:20 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**1.1**	mg/L	0.050	1		11/11/22 19:25	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/02/22 23:40	14797-65-0	H1
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/08/22 16:10	11/08/22 17:54	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**29.4**	mg/L	10.0	5		11/03/22 14:18	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.17**	mg/L	0.10	1		11/03/22 12:32	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06A_10/31/22 DISS **Lab ID: 70234464027** Collected: 10/31/22 17:20 Received: 11/01/22 09:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/22 15:24	7429-90-5	
Barium, Dissolved	**43.7J**	ug/L	200	1		11/02/22 15:24	7440-39-3	
Calcium, Dissolved	**3510**	ug/L	1000	1		11/02/22 15:24	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/22 15:24	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/22 15:24	7440-50-8	
Iron, Dissolved	**170**	ug/L	20.0	1		11/02/22 15:24	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/22 15:24	7439-92-1	
Magnesium, Dissolved	**3560**	ug/L	1000	1		11/02/22 15:24	7439-95-4	
Manganese, Dissolved	**17.5**	ug/L	10.0	1		11/02/22 15:24	7439-96-5	
Nickel, Dissolved	**6.6J**	ug/L	40.0	1		11/02/22 15:24	7440-02-0	
Potassium, Dissolved	**2790J**	ug/L	5000	1		11/02/22 15:24	7440-09-7	
Sodium, Dissolved	**12600**	ug/L	5000	1		11/02/22 15:24	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/22 15:24	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:26	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/02/22 02:33	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: TRIP BLANK_11/1/2022 **Lab ID: 70234464028** Collected: 11/01/22 00:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	98-06-6	L2
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/07/22 17:28	56-23-5	v3
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/07/22 17:28	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/07/22 17:28	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:28	71-55-6	v3
Trichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/07/22 17:28	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/07/22 17:28	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/07/22 17:28	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/07/22 17:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	81-122	1		11/07/22 17:28	17060-07-0	
4-Bromofluorobenzene (S)	89	%	79-118	1		11/07/22 17:28	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		11/07/22 17:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-1_11/1/22 **Lab ID: 70234464029** Collected: 11/01/22 12:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:31	7429-90-5	
Barium	**72.7J**	ug/L	200	1	11/09/22 10:23	11/09/22 18:31	7440-39-3	
Calcium	**12300**	ug/L	200	1	11/09/22 10:23	11/09/22 18:31	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:31	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/09/22 10:23	11/09/22 18:31	7440-50-8	
Iron	**16000**	ug/L	100	1	11/09/22 10:23	11/09/22 18:31	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/09/22 10:23	11/09/22 18:31	7439-92-1	
Magnesium	**8340**	ug/L	200	1	11/09/22 10:23	11/09/22 18:31	7439-95-4	
Manganese	**2640**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:31	7439-96-5	
Nickel	**10.6J**	ug/L	40.0	1	11/09/22 10:23	11/09/22 18:31	7440-02-0	
Potassium	**12300**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:31	7440-09-7	
Sodium	**77200**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:31	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/09/22 10:23	11/09/22 18:31	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**65100**	ug/L	830	1		11/09/22 18:31		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/09/22 11:05	11/09/22 14:23	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	98-06-6	L2
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/07/22 18:14	56-23-5	v3
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/07/22 18:14	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	1		11/07/22 18:14	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-1_11/1/22 **Lab ID: 70234464029** Collected: 11/01/22 12:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/07/22 18:14	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:14	71-55-6	v3
Trichloroethene	**8.4**	ug/L	1.0	1		11/07/22 18:14	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/07/22 18:14	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/07/22 18:14	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/07/22 18:14	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/07/22 18:14	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	81-122	1		11/07/22 18:14	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-118	1		11/07/22 18:14	460-00-4	
Toluene-d8 (S)	105	%	82-122	1		11/07/22 18:14	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**54.8**	mg/L	1.0	1		11/15/22 20:18		
Alkalinity,Bicarbonate (CaCO3)	**54.8**	mg/L	1.0	1		11/15/22 20:18		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/15/22 20:18		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**59.7**	mg/L	5.0	1		11/14/22 16:53		
Alkalinity,Bicarbonate (CaCO3)	**59.7**	mg/L	5.0	1		11/14/22 16:53		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/14/22 16:53		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**388**	mg/L	20.0	1		11/07/22 21:12		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 10:14	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**33.2**	mg/L	5.0	1		11/21/22 19:19	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**0.39**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:42	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-1_11/1/22 **Lab ID: 70234464029** Collected: 11/01/22 12:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		11/11/22 19:26	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/03/22 01:12	14797-65-0	
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/22 14:37	11/11/22 16:55	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**132**	mg/L	10.0	5		11/07/22 14:53	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.17**	mg/L	0.10	1		11/11/22 14:26	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: LF-1_11/1/22 DISS **Lab ID: 70234464030** Collected: 11/01/22 12:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/05/22 12:21	7429-90-5	
Barium, Dissolved	**69.1J**	ug/L	200	1		11/05/22 12:21	7440-39-3	
Calcium, Dissolved	**11800**	ug/L	1000	1		11/05/22 12:21	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/05/22 12:21	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/05/22 12:21	7440-50-8	
Iron, Dissolved	**15200**	ug/L	20.0	1		11/05/22 12:21	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/05/22 12:21	7439-92-1	
Magnesium, Dissolved	**7800**	ug/L	1000	1		11/05/22 12:21	7439-95-4	
Manganese, Dissolved	**2330**	ug/L	10.0	1		11/05/22 12:21	7439-96-5	M1
Nickel, Dissolved	**7.5J**	ug/L	40.0	1		11/05/22 12:21	7440-02-0	
Potassium, Dissolved	**11400**	ug/L	5000	1		11/05/22 12:21	7440-09-7	
Sodium, Dissolved	**72800**	ug/L	5000	1		11/05/22 12:21	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/05/22 12:21	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:30	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 10:14	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06E_11/1/22 **Lab ID: 70234464031** Collected: 11/01/22 18:45 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:34	7429-90-5	
Barium	**134J**	ug/L	200	1	11/09/22 10:23	11/09/22 18:34	7440-39-3	
Calcium	**21800**	ug/L	200	1	11/09/22 10:23	11/09/22 18:34	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:34	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/09/22 10:23	11/09/22 18:34	7440-50-8	
Iron	**15800**	ug/L	100	1	11/09/22 10:23	11/09/22 18:34	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/09/22 10:23	11/09/22 18:34	7439-92-1	
Magnesium	**14800**	ug/L	200	1	11/09/22 10:23	11/09/22 18:34	7439-95-4	
Manganese	**263**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:34	7439-96-5	
Nickel	**16.1J**	ug/L	40.0	1	11/09/22 10:23	11/09/22 18:34	7440-02-0	
Potassium	**33300**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:34	7440-09-7	
Sodium	**142000**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:34	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/09/22 10:23	11/09/22 18:34	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**115000**	ug/L	830	1		11/09/22 18:34		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/09/22 11:05	11/09/22 14:24	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	98-06-6	L2
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/07/22 18:36	56-23-5	v3
Chlorobenzene	**2.7**	ug/L	1.0	1		11/07/22 18:36	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/07/22 18:36	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	541-73-1	
1,4-Dichlorobenzene	**1.1**	ug/L	1.0	1		11/07/22 18:36	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06E_11/1/22 **Lab ID: 70234464031** Collected: 11/01/22 18:45 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/07/22 18:36	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 18:36	71-55-6	v3
Trichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/07/22 18:36	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/07/22 18:36	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/07/22 18:36	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/07/22 18:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	81-122	1		11/07/22 18:36	17060-07-0	
4-Bromofluorobenzene (S)	87	%	79-118	1		11/07/22 18:36	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		11/07/22 18:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**180**	mg/L	1.0	1		11/15/22 20:30		
Alkalinity,Bicarbonate (CaCO3)	**180**	mg/L	1.0	1		11/15/22 20:30		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/15/22 20:30		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**193**	mg/L	5.0	1		11/14/22 17:06		
Alkalinity,Bicarbonate (CaCO3)	**193**	mg/L	5.0	1		11/14/22 17:06		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/14/22 17:06		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**612**	mg/L	20.0	1		11/07/22 21:12		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 10:15	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**42.5**	mg/L	5.0	1		11/21/22 19:35	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**25.0**	mg/L	2.0	20	11/16/22 10:14	11/16/22 16:52	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06E_11/1/22 **Lab ID: 70234464031** Collected: 11/01/22 18:45 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.1**	mg/L	0.10	2		11/11/22 19:28	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/03/22 01:17	14797-65-0	
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/22 14:37	11/11/22 16:56	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**257**	mg/L	10.0	5		11/07/22 14:54	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**22.6**	mg/L	1.0	10		11/11/22 16:27	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06E_11/1/22 DISS **Lab ID: 70234464032** Collected: 11/01/22 18:45 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/05/22 12:33	7429-90-5	
Barium, Dissolved	**126J**	ug/L	200	1		11/05/22 12:33	7440-39-3	
Calcium, Dissolved	**20300**	ug/L	1000	1		11/05/22 12:33	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/05/22 12:33	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/05/22 12:33	7440-50-8	
Iron, Dissolved	**15000**	ug/L	20.0	1		11/05/22 12:33	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/05/22 12:33	7439-92-1	
Magnesium, Dissolved	**13700**	ug/L	1000	1		11/05/22 12:33	7439-95-4	
Manganese, Dissolved	**228**	ug/L	10.0	1		11/05/22 12:33	7439-96-5	
Nickel, Dissolved	**11.9J**	ug/L	40.0	1		11/05/22 12:33	7440-02-0	
Potassium, Dissolved	**29400**	ug/L	5000	1		11/05/22 12:33	7440-09-7	
Sodium, Dissolved	**133000**	ug/L	5000	1		11/05/22 12:33	7440-23-5	
Zinc, Dissolved	**5.2J**	ug/L	20.0	1		11/05/22 12:33	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:32	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 10:16	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06B_11/1/22 **Lab ID: 70234464033** Collected: 11/01/22 14:30 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:37	7429-90-5	
Barium	**80.4J**	ug/L	200	1	11/09/22 10:23	11/09/22 18:37	7440-39-3	
Calcium	**29600**	ug/L	200	1	11/09/22 10:23	11/09/22 18:37	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:37	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/09/22 10:23	11/09/22 18:37	7440-50-8	
Iron	**19400**	ug/L	100	1	11/09/22 10:23	11/09/22 18:37	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/09/22 10:23	11/09/22 18:37	7439-92-1	
Magnesium	**32600**	ug/L	200	1	11/09/22 10:23	11/09/22 18:37	7439-95-4	
Manganese	**57.9**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:37	7439-96-5	
Nickel	**6.8J**	ug/L	40.0	1	11/09/22 10:23	11/09/22 18:37	7440-02-0	
Potassium	**107000**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:37	7440-09-7	
Sodium	**117000**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:37	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/09/22 10:23	11/09/22 18:37	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**208000**	ug/L	830	1		11/09/22 18:37		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/09/22 11:05	11/09/22 14:25	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**2.1**	ug/L	1.0	1		11/07/22 19:00	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/07/22 19:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/07/22 19:00	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	98-06-6	L2
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/07/22 19:00	56-23-5	v3
Chlorobenzene	**17.4**	ug/L	1.0	1		11/07/22 19:00	108-90-7	
Chloroethane	**2.8**	ug/L	1.0	1		11/07/22 19:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/07/22 19:00	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/07/22 19:00	124-48-1	
1,2-Dichlorobenzene	**1.1**	ug/L	1.0	1		11/07/22 19:00	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	541-73-1	
1,4-Dichlorobenzene	**3.8**	ug/L	1.0	1		11/07/22 19:00	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/07/22 19:00	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		11/07/22 19:00	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 19:00	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/07/22 19:00	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06B_11/1/22 **Lab ID: 70234464033** Collected: 11/01/22 14:30 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**1.2**	ug/L	1.0	1		11/07/22 19:00	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/07/22 19:00	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 19:00	71-55-6	v3
Trichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/07/22 19:00	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/07/22 19:00	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/07/22 19:00	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/07/22 19:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	81-122	1		11/07/22 19:00	17060-07-0	
4-Bromofluorobenzene (S)	89	%	79-118	1		11/07/22 19:00	460-00-4	
Toluene-d8 (S)	105	%	82-122	1		11/07/22 19:00	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1000**	mg/L	5.0	1		11/14/22 17:11		
Alkalinity,Bicarbonate (CaCO3)	**1000**	mg/L	5.0	1		11/14/22 17:11		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/14/22 17:11		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**682**	mg/L	20.0	1		11/07/22 21:13		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 10:15	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		11/21/22 19:51	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**124**	mg/L	5.0	10	11/16/22 10:14	11/16/22 17:17	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		11/11/22 19:31	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/03/22 01:16	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06B_11/1/22 **Lab ID: 70234464033** Collected: 11/01/22 14:30 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/22 14:37	11/11/22 16:57	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**71.6**	mg/L	2.0	1		11/07/22 14:42	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**124**	mg/L	2.5	25		11/13/22 13:19	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: MW-06B_11/1/22 DISS **Lab ID: 70234464034** Collected: 11/01/22 14:30 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/05/22 12:36	7429-90-5	
Barium, Dissolved	**73.6J**	ug/L	200	1		11/05/22 12:36	7440-39-3	
Calcium, Dissolved	**26800**	ug/L	1000	1		11/05/22 12:36	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/05/22 12:36	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/05/22 12:36	7440-50-8	
Iron, Dissolved	**17400**	ug/L	20.0	1		11/05/22 12:36	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/05/22 12:36	7439-92-1	
Magnesium, Dissolved	**28500**	ug/L	1000	1		11/05/22 12:36	7439-95-4	
Manganese, Dissolved	**48.0**	ug/L	10.0	1		11/05/22 12:36	7439-96-5	
Nickel, Dissolved	**6.1J**	ug/L	40.0	1		11/05/22 12:36	7440-02-0	
Potassium, Dissolved	**88600**	ug/L	5000	1		11/05/22 12:36	7440-09-7	
Sodium, Dissolved	**107000**	ug/L	5000	1		11/05/22 12:36	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/05/22 12:36	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:33	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 10:15	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: FIELD BLANK_11/1/22 **Lab ID: 70234464035** Collected: 11/01/22 19:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:40	7429-90-5	
Barium	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:40	7440-39-3	
Calcium	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:40	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:40	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/09/22 10:23	11/09/22 18:40	7440-50-8	
Iron	**<100**	ug/L	100	1	11/09/22 10:23	11/09/22 18:40	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/09/22 10:23	11/09/22 18:40	7439-92-1	
Magnesium	**<200**	ug/L	200	1	11/09/22 10:23	11/09/22 18:40	7439-95-4	
Manganese	**<10.0**	ug/L	10.0	1	11/09/22 10:23	11/09/22 18:40	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	11/09/22 10:23	11/09/22 18:40	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:40	7440-09-7	
Sodium	**<5000**	ug/L	5000	1	11/09/22 10:23	11/09/22 18:40	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/09/22 10:23	11/09/22 18:40	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**<830**	ug/L	830	1		11/09/22 18:40		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/09/22 11:05	11/09/22 14:27	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	98-06-6	L2
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/07/22 17:51	56-23-5	v3
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/07/22 17:51	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: FIELD BLANK_11/1/22 **Lab ID: 70234464035** Collected: 11/01/22 19:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/07/22 17:51	98-82-8	
Methylene Chloride	**1.2**	ug/L	1.0	1		11/07/22 17:51	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/07/22 17:51	71-55-6	v3
Trichloroethene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/07/22 17:51	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/07/22 17:51	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/07/22 17:51	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/07/22 17:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	81-122	1		11/07/22 17:51	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		11/07/22 17:51	460-00-4	
Toluene-d8 (S)	107	%	82-122	1		11/07/22 17:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		11/15/22 20:34		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/15/22 20:34		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/15/22 20:34		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<5.0**	mg/L	5.0	1		11/14/22 17:14		
Alkalinity,Bicarbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/14/22 17:14		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		11/14/22 17:14		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**<10.0**	mg/L	10.0	1		11/07/22 21:13		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 11:16	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		11/21/22 20:07	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/16/22 10:14	11/16/22 16:44	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: FIELD BLANK_11/1/22 **Lab ID: 70234464035** Collected: 11/01/22 19:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		11/11/22 19:35	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		11/03/22 01:18	14797-65-0	
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/22 14:37	11/11/22 16:58	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**<2.0**	mg/L	2.0	1		11/07/22 14:43	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.094J**	mg/L	0.10	1		11/11/22 14:32	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Sample: FIELD BLANK_11/1/22 DISS **Lab ID: 70234464036** Collected: 11/01/22 19:00 Received: 11/02/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/05/22 12:45	7429-90-5	
Barium, Dissolved	**<200**	ug/L	200	1		11/05/22 12:45	7440-39-3	
Calcium, Dissolved	**45.2J**	ug/L	1000	1		11/05/22 12:45	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/05/22 12:45	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/05/22 12:45	7440-50-8	
Iron, Dissolved	**6.8J**	ug/L	20.0	1		11/05/22 12:45	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/05/22 12:45	7439-92-1	
Magnesium, Dissolved	**<1000**	ug/L	1000	1		11/05/22 12:45	7439-95-4	
Manganese, Dissolved	**<10.0**	ug/L	10.0	1		11/05/22 12:45	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		11/05/22 12:45	7440-02-0	
Potassium, Dissolved	**<5000**	ug/L	5000	1		11/05/22 12:45	7440-09-7	
Sodium, Dissolved	**<5000**	ug/L	5000	1		11/05/22 12:45	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/05/22 12:45	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/09/22 10:40	11/09/22 13:37	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		11/03/22 11:16	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279564
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464003

METHOD BLANK: 1413550 Matrix: Water
Associated Lab Samples: 70234464003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/27/22 11:15	
Barium, Dissolved	ug/L	<200	200	10/27/22 11:15	
Calcium, Dissolved	ug/L	<1000	1000	10/27/22 11:15	
Chromium, Dissolved	ug/L	<10.0	10.0	10/27/22 11:15	
Copper, Dissolved	ug/L	<25.0	25.0	10/27/22 11:15	
Iron, Dissolved	ug/L	<20.0	20.0	10/27/22 11:15	
Lead, Dissolved	ug/L	<5.0	5.0	10/27/22 11:15	
Magnesium, Dissolved	ug/L	<1000	1000	10/27/22 11:15	
Manganese, Dissolved	ug/L	<10.0	10.0	10/27/22 11:15	
Nickel, Dissolved	ug/L	<40.0	40.0	10/27/22 11:15	
Potassium, Dissolved	ug/L	<5000	5000	10/27/22 11:15	
Sodium, Dissolved	ug/L	<5000	5000	10/27/22 11:15	
Zinc, Dissolved	ug/L	<20.0	20.0	10/27/22 11:15	

LABORATORY CONTROL SAMPLE: 1413551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24800	99	85-115	
Barium, Dissolved	ug/L	500	497	99	85-115	
Calcium, Dissolved	ug/L	25000	25300	101	85-115	
Chromium, Dissolved	ug/L	500	487	97	85-115	
Copper, Dissolved	ug/L	500	484	97	85-115	
Iron, Dissolved	ug/L	12500	12400	99	85-115	
Lead, Dissolved	ug/L	500	502	100	85-115	
Magnesium, Dissolved	ug/L	25000	24800	99	85-115	
Manganese, Dissolved	ug/L	500	490	98	85-115	
Nickel, Dissolved	ug/L	500	500	100	85-115	
Potassium, Dissolved	ug/L	25000	24500	98	85-115	
Sodium, Dissolved	ug/L	25000	25300	101	85-115	
Zinc, Dissolved	ug/L	500	498	100	85-115	

MATRIX SPIKE SAMPLE: 1413553

Parameter	Units	70234464003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	25000	23700	95	70-130	
Barium, Dissolved	ug/L	33.4J	500	378	69	70-130	M1
Calcium, Dissolved	ug/L	11200	25000	34200	92	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1413553

Parameter	Units	70234464003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	500	471	94	70-130	
Copper, Dissolved	ug/L	<25.0	500	463	92	70-130	
Iron, Dissolved	ug/L	20.4	12500	11700	94	70-130	
Lead, Dissolved	ug/L	<5.0	500	480	96	70-130	
Magnesium, Dissolved	ug/L	6820	25000	29700	92	70-130	
Manganese, Dissolved	ug/L	2120	500	2470	70	70-130	
Nickel, Dissolved	ug/L	<40.0	500	492	98	70-130	
Potassium, Dissolved	ug/L	17100	25000	40700	94	70-130	
Sodium, Dissolved	ug/L	41900	25000	65000	92	70-130	
Zinc, Dissolved	ug/L	<20.0	500	488	97	70-130	

SAMPLE DUPLICATE: 1413552

Parameter	Units	70234464003 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	33.4J	33.2J		
Calcium, Dissolved	ug/L	11200	11100	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	20.4	18.8J		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	6820	6770	1	
Manganese, Dissolved	ug/L	2120	2100	1	
Nickel, Dissolved	ug/L	<40.0	<40.0		
Potassium, Dissolved	ug/L	17100	17000	1	
Sodium, Dissolved	ug/L	41900	41700	0	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279786
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464008, 70234464009, 70234464010

METHOD BLANK: 1414468 Matrix: Water
Associated Lab Samples: 70234464008, 70234464009, 70234464010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/28/22 14:52	
Barium, Dissolved	ug/L	<200	200	10/28/22 14:52	
Calcium, Dissolved	ug/L	<1000	1000	10/28/22 14:52	
Chromium, Dissolved	ug/L	<10.0	10.0	10/28/22 14:52	
Copper, Dissolved	ug/L	<25.0	25.0	10/28/22 14:52	
Iron, Dissolved	ug/L	<20.0	20.0	10/28/22 14:52	
Lead, Dissolved	ug/L	<5.0	5.0	10/28/22 14:52	
Magnesium, Dissolved	ug/L	<1000	1000	10/28/22 14:52	
Manganese, Dissolved	ug/L	<10.0	10.0	10/28/22 14:52	
Nickel, Dissolved	ug/L	<40.0	40.0	10/28/22 14:52	
Potassium, Dissolved	ug/L	<5000	5000	10/28/22 14:52	
Sodium, Dissolved	ug/L	<5000	5000	10/28/22 14:52	
Zinc, Dissolved	ug/L	<20.0	20.0	10/28/22 14:52	

LABORATORY CONTROL SAMPLE: 1414469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24900	100	85-115	
Barium, Dissolved	ug/L	500	489	98	85-115	
Calcium, Dissolved	ug/L	25000	25300	101	85-115	
Chromium, Dissolved	ug/L	500	492	98	85-115	
Copper, Dissolved	ug/L	500	486	97	85-115	
Iron, Dissolved	ug/L	12500	12300	99	85-115	
Lead, Dissolved	ug/L	500	502	100	85-115	
Magnesium, Dissolved	ug/L	25000	24600	98	85-115	
Manganese, Dissolved	ug/L	500	494	99	85-115	
Nickel, Dissolved	ug/L	500	498	100	85-115	
Potassium, Dissolved	ug/L	25000	24800	99	85-115	
Sodium, Dissolved	ug/L	25000	26000	104	85-115	
Zinc, Dissolved	ug/L	500	497	99	85-115	

MATRIX SPIKE SAMPLE: 1414471

Parameter	Units	70234464008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	25000	23500	94	70-130	
Barium, Dissolved	ug/L	60.7J	500	360	60	70-130	M1
Calcium, Dissolved	ug/L	10900	25000	33700	91	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1414471

Parameter	Units	70234464008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	500	468	94	70-130	
Copper, Dissolved	ug/L	<25.0	500	460	92	70-130	
Iron, Dissolved	ug/L	27.6	12500	11400	91	70-130	
Lead, Dissolved	ug/L	<5.0	500	460	92	70-130	
Magnesium, Dissolved	ug/L	6760	25000	29100	89	70-130	
Manganese, Dissolved	ug/L	245	500	700	91	70-130	
Nickel, Dissolved	ug/L	6.8J	500	478	94	70-130	
Potassium, Dissolved	ug/L	10200	25000	34000	95	70-130	
Sodium, Dissolved	ug/L	60500	25000	83000	90	70-130	
Zinc, Dissolved	ug/L	<20.0	500	475	95	70-130	

SAMPLE DUPLICATE: 1414470

Parameter	Units	70234464008 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	60.7J	60.7J		
Calcium, Dissolved	ug/L	10900	10900	0	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	27.6	27.8	1	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	6760	6750	0	
Manganese, Dissolved	ug/L	245	244	0	
Nickel, Dissolved	ug/L	6.8J	7.0J		
Potassium, Dissolved	ug/L	10200	10200	0	
Sodium, Dissolved	ug/L	60500	60300	0	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464013, 70234464016, 70234464018, 70234464020

METHOD BLANK: 1415381 Matrix: Water
Associated Lab Samples: 70234464013, 70234464016, 70234464018, 70234464020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/31/22 13:31	
Barium, Dissolved	ug/L	<200	200	10/31/22 13:31	
Calcium, Dissolved	ug/L	<1000	1000	10/31/22 13:31	
Chromium, Dissolved	ug/L	<10.0	10.0	10/31/22 13:31	
Copper, Dissolved	ug/L	<25.0	25.0	10/31/22 13:31	
Iron, Dissolved	ug/L	<20.0	20.0	10/31/22 13:31	
Lead, Dissolved	ug/L	<5.0	5.0	10/31/22 13:31	
Magnesium, Dissolved	ug/L	<1000	1000	10/31/22 13:31	
Manganese, Dissolved	ug/L	<10.0	10.0	10/31/22 13:31	
Nickel, Dissolved	ug/L	<40.0	40.0	10/31/22 13:31	
Potassium, Dissolved	ug/L	<5000	5000	10/31/22 13:31	
Sodium, Dissolved	ug/L	<5000	5000	10/31/22 13:31	
Zinc, Dissolved	ug/L	<20.0	20.0	10/31/22 13:31	

LABORATORY CONTROL SAMPLE: 1415382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24900	100	85-115	
Barium, Dissolved	ug/L	500	504	101	85-115	
Calcium, Dissolved	ug/L	25000	25900	104	85-115	
Chromium, Dissolved	ug/L	500	503	101	85-115	
Copper, Dissolved	ug/L	500	510	102	85-115	
Iron, Dissolved	ug/L	12500	12600	101	85-115	
Lead, Dissolved	ug/L	500	501	100	85-115	
Magnesium, Dissolved	ug/L	25000	25200	101	85-115	
Manganese, Dissolved	ug/L	500	501	100	85-115	
Nickel, Dissolved	ug/L	500	507	101	85-115	
Potassium, Dissolved	ug/L	25000	24900	100	85-115	
Sodium, Dissolved	ug/L	25000	25800	103	85-115	
Zinc, Dissolved	ug/L	500	504	101	85-115	

MATRIX SPIKE SAMPLE: 1415384

Parameter	Units	70234464013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	25000	23000	92	70-130	
Barium, Dissolved	ug/L	55.8J	500	286	46	70-130	M1
Calcium, Dissolved	ug/L	50100	25000	72500	90	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1415384

Parameter	Units	70234464013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	4.0J	500	473	94	70-130	
Copper, Dissolved	ug/L	<25.0	500	473	94	70-130	
Iron, Dissolved	ug/L	11300	12500	22200	88	70-130	
Lead, Dissolved	ug/L	<5.0	500	441	88	70-130	
Magnesium, Dissolved	ug/L	29500	25000	51700	89	70-130	
Manganese, Dissolved	ug/L	190	500	636	89	70-130	
Nickel, Dissolved	ug/L	11.2J	500	484	95	70-130	
Potassium, Dissolved	ug/L	92500	25000	115000	90	70-130	
Sodium, Dissolved	ug/L	311000	25000	322000	44	70-130	M1
Zinc, Dissolved	ug/L	<20.0	500	478	96	70-130	

SAMPLE DUPLICATE: 1415383

Parameter	Units	70234464013 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	55.8J	55.7J		
Calcium, Dissolved	ug/L	50100	51100	2	
Chromium, Dissolved	ug/L	4.0J	4.2J		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	11300	11300	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	29500	30100	2	
Manganese, Dissolved	ug/L	190	190	0	
Nickel, Dissolved	ug/L	11.2J	11.4J		
Potassium, Dissolved	ug/L	92500	91900	1	
Sodium, Dissolved	ug/L	311000	310000	0	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280410
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464023, 70234464025, 70234464027

METHOD BLANK: 1417359 Matrix: Water
Associated Lab Samples: 70234464023, 70234464025, 70234464027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	11/02/22 15:05	
Barium, Dissolved	ug/L	<200	200	11/02/22 15:05	
Calcium, Dissolved	ug/L	<1000	1000	11/02/22 15:05	
Chromium, Dissolved	ug/L	<10.0	10.0	11/02/22 15:05	
Copper, Dissolved	ug/L	<25.0	25.0	11/02/22 15:05	
Iron, Dissolved	ug/L	<20.0	20.0	11/02/22 15:05	
Lead, Dissolved	ug/L	<5.0	5.0	11/02/22 15:05	
Magnesium, Dissolved	ug/L	<1000	1000	11/02/22 15:05	
Manganese, Dissolved	ug/L	<10.0	10.0	11/02/22 15:05	
Nickel, Dissolved	ug/L	<40.0	40.0	11/02/22 15:05	
Potassium, Dissolved	ug/L	<5000	5000	11/02/22 15:05	
Sodium, Dissolved	ug/L	<5000	5000	11/02/22 15:05	
Zinc, Dissolved	ug/L	<20.0	20.0	11/02/22 15:05	

LABORATORY CONTROL SAMPLE: 1417360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24500	98	85-115	
Barium, Dissolved	ug/L	500	485	97	85-115	
Calcium, Dissolved	ug/L	25000	25100	100	85-115	
Chromium, Dissolved	ug/L	500	495	99	85-115	
Copper, Dissolved	ug/L	500	487	97	85-115	
Iron, Dissolved	ug/L	12500	12200	97	85-115	
Lead, Dissolved	ug/L	500	499	100	85-115	
Magnesium, Dissolved	ug/L	25000	24600	98	85-115	
Manganese, Dissolved	ug/L	500	490	98	85-115	
Nickel, Dissolved	ug/L	500	497	99	85-115	
Potassium, Dissolved	ug/L	25000	24300	97	85-115	
Sodium, Dissolved	ug/L	25000	24100	96	85-115	
Zinc, Dissolved	ug/L	500	499	100	85-115	

MATRIX SPIKE SAMPLE: 1417362

Parameter	Units	70234464023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	154J	25000	24000	95	70-130	
Barium, Dissolved	ug/L	241	500	484	49	70-130	M1
Calcium, Dissolved	ug/L	43400	25000	64400	84	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1417362

Parameter	Units	70234464023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	500	478	96	70-130	
Copper, Dissolved	ug/L	<25.0	500	471	93	70-130	
Iron, Dissolved	ug/L	19.6J	12500	11500	92	70-130	
Lead, Dissolved	ug/L	<5.0	500	460	92	70-130	
Magnesium, Dissolved	ug/L	16800	25000	39200	90	70-130	
Manganese, Dissolved	ug/L	129	500	598	94	70-130	
Nickel, Dissolved	ug/L	30.8J	500	505	95	70-130	
Potassium, Dissolved	ug/L	10400	25000	36200	103	70-130	
Sodium, Dissolved	ug/L	168000	25000	184000	64	70-130	M1
Zinc, Dissolved	ug/L	24.2	500	509	97	70-130	

SAMPLE DUPLICATE: 1417361

Parameter	Units	70234464023 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	154J	163J		
Barium, Dissolved	ug/L	241	243	1	
Calcium, Dissolved	ug/L	43400	43300	0	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	19.6J	22.6		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	16800	16800	0	
Manganese, Dissolved	ug/L	129	131	2	
Nickel, Dissolved	ug/L	30.8J	31.3J		
Potassium, Dissolved	ug/L	10400	10300	1	
Sodium, Dissolved	ug/L	168000	168000	0	
Zinc, Dissolved	ug/L	24.2	25.0	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280813
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464030, 70234464032, 70234464034, 70234464036

METHOD BLANK: 1419517 Matrix: Water
Associated Lab Samples: 70234464030, 70234464032, 70234464034, 70234464036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	11/05/22 12:16	
Barium, Dissolved	ug/L	<200	200	11/05/22 12:16	
Calcium, Dissolved	ug/L	<1000	1000	11/05/22 12:16	
Chromium, Dissolved	ug/L	<10.0	10.0	11/05/22 12:16	
Copper, Dissolved	ug/L	<25.0	25.0	11/05/22 12:16	
Iron, Dissolved	ug/L	<20.0	20.0	11/05/22 12:16	
Lead, Dissolved	ug/L	<5.0	5.0	11/05/22 12:16	
Magnesium, Dissolved	ug/L	<1000	1000	11/05/22 12:16	
Manganese, Dissolved	ug/L	<10.0	10.0	11/05/22 12:16	
Nickel, Dissolved	ug/L	<40.0	40.0	11/05/22 12:16	
Potassium, Dissolved	ug/L	1060J	5000	11/05/22 12:16	
Sodium, Dissolved	ug/L	<5000	5000	11/05/22 12:16	
Zinc, Dissolved	ug/L	<20.0	20.0	11/05/22 12:16	

LABORATORY CONTROL SAMPLE: 1419518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24100	96	85-115	
Barium, Dissolved	ug/L	500	493	99	85-115	
Calcium, Dissolved	ug/L	25000	24600	98	85-115	
Chromium, Dissolved	ug/L	500	476	95	85-115	
Copper, Dissolved	ug/L	500	485	97	85-115	
Iron, Dissolved	ug/L	12500	12000	96	85-115	
Lead, Dissolved	ug/L	500	495	99	85-115	
Magnesium, Dissolved	ug/L	25000	24100	96	85-115	
Manganese, Dissolved	ug/L	500	475	95	85-115	
Nickel, Dissolved	ug/L	500	480	96	85-115	
Potassium, Dissolved	ug/L	25000	22800	91	85-115	
Sodium, Dissolved	ug/L	25000	24800	99	85-115	
Zinc, Dissolved	ug/L	500	488	98	85-115	

MATRIX SPIKE SAMPLE: 1419520

Parameter	Units	70234464030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	12500	12600	101	70-130	
Barium, Dissolved	ug/L	69.1J	500	672	121	70-130	
Calcium, Dissolved	ug/L	11800	12500	24300	100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1419520

Parameter	Units	70234464030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	500	499	100	70-130	
Copper, Dissolved	ug/L	<25.0	500	505	101	70-130	
Iron, Dissolved	ug/L	15200	5000	19100	79	70-130	
Lead, Dissolved	ug/L	<5.0	500	518	103	70-130	
Magnesium, Dissolved	ug/L	7800	12500	19600	94	70-130	
Manganese, Dissolved	ug/L	2330	500	2650	64	70-130	M1
Nickel, Dissolved	ug/L	7.5J	500	488	96	70-130	
Potassium, Dissolved	ug/L	11400	12500	22700	90	70-130	
Sodium, Dissolved	ug/L	72800	12500	83400	85	70-130	
Zinc, Dissolved	ug/L	<20.0	500	516	103	70-130	

SAMPLE DUPLICATE: 1419519

Parameter	Units	70234464030 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	69.1J	68.2J		
Calcium, Dissolved	ug/L	11800	11700	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	15200	15100	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	7800	7750	1	
Manganese, Dissolved	ug/L	2330	2320	0	
Nickel, Dissolved	ug/L	7.5J	7.4J		
Potassium, Dissolved	ug/L	11400	11300	1	
Sodium, Dissolved	ug/L	72800	72300	1	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279570
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1413558 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	10/28/22 09:52	

LABORATORY CONTROL SAMPLE: 1413559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	100	85-115	

MATRIX SPIKE SAMPLE: 1413560

Parameter	Units	70234493007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.84	84	70-130	

SAMPLE DUPLICATE: 1413561

Parameter	Units	70234493007 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279940 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1415192 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/01/22 11:25	

LABORATORY CONTROL SAMPLE: 1415193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.96	96	85-115	

MATRIX SPIKE SAMPLE: 1415194

Parameter	Units	70234567001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.98	96	70-130	

MATRIX SPIKE SAMPLE: 1415196

Parameter	Units	70234464005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	102	70-130	

SAMPLE DUPLICATE: 1415195

Parameter	Units	70234567001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1415197

Parameter	Units	70234464005 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280163 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1416175 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/02/22 13:07	

LABORATORY CONTROL SAMPLE: 1416176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.96	96	85-115	

MATRIX SPIKE SAMPLE: 1416177

Parameter	Units	70234849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.99	97	70-130	

MATRIX SPIKE SAMPLE: 1416179

Parameter	Units	70234464012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.98	98	70-130	

SAMPLE DUPLICATE: 1416178

Parameter	Units	70234849003 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1416180

Parameter	Units	70234464012 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280508 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1418125 | Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/03/22 14:00	

LABORATORY CONTROL SAMPLE: 1418126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	100	85-115	

MATRIX SPIKE SAMPLE: 1418127

Parameter	Units	30528551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	1	1.0	98	70-130	

MATRIX SPIKE SAMPLE: 1418129

Parameter	Units	70234975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.97	95	70-130	

SAMPLE DUPLICATE: 1418128

Parameter	Units	30528551001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	<0.20		

SAMPLE DUPLICATE: 1418130

Parameter	Units	70234975001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281333 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1422217 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/09/22 14:06	

LABORATORY CONTROL SAMPLE: 1422218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.97	97	85-115	

MATRIX SPIKE SAMPLE: 1422219

Parameter	Units	70235517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	99	70-130	

MATRIX SPIKE SAMPLE: 1422221

Parameter	Units	70235634001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	102	70-130	

SAMPLE DUPLICATE: 1422220

Parameter	Units	70235517001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1422222

Parameter	Units	70235634001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281332
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464003, 70234464008, 70234464009, 70234464010, 70234464013, 70234464016, 70234464018, 70234464020, 70234464023, 70234464025, 70234464027, 70234464030, 70234464032, 70234464034, 70234464036

METHOD BLANK: 1422211 Matrix: Water
Associated Lab Samples: 70234464003, 70234464008, 70234464009, 70234464010, 70234464013, 70234464016, 70234464018, 70234464020, 70234464023, 70234464025, 70234464027, 70234464030, 70234464032, 70234464034, 70234464036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	11/09/22 13:04	

LABORATORY CONTROL SAMPLE: 1422212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.99	99	85-115	

MATRIX SPIKE SAMPLE: 1422213

Parameter	Units	70234464003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	0.091J	1	1.1	98	70-130	

MATRIX SPIKE SAMPLE: 1422215

Parameter	Units	70234464027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.0	95	70-130	

SAMPLE DUPLICATE: 1422214

Parameter	Units	70234464003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	0.091J	<0.20		

SAMPLE DUPLICATE: 1422216

Parameter	Units	70234464027 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279948
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1415218 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	10/31/22 16:05	
Barium	ug/L	<200	200	10/31/22 16:05	
Calcium	ug/L	<200	200	10/31/22 16:05	
Chromium	ug/L	<10.0	10.0	10/31/22 16:05	
Copper	ug/L	<25.0	25.0	10/31/22 16:05	
Iron	ug/L	<100	100	10/31/22 16:05	
Lead	ug/L	<5.0	5.0	10/31/22 16:05	
Magnesium	ug/L	<200	200	10/31/22 16:05	
Manganese	ug/L	<10.0	10.0	10/31/22 16:05	
Nickel	ug/L	<40.0	40.0	10/31/22 16:05	
Potassium	ug/L	<5000	5000	10/31/22 16:05	
Sodium	ug/L	<5000	5000	10/31/22 16:05	
Zinc	ug/L	<20.0	20.0	10/31/22 16:05	

LABORATORY CONTROL SAMPLE: 1415219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24300	97	85-115	
Barium	ug/L	500	496	99	85-115	
Calcium	ug/L	25000	25300	101	85-115	
Chromium	ug/L	500	493	99	85-115	
Copper	ug/L	500	501	100	85-115	
Iron	ug/L	12500	12300	99	85-115	
Lead	ug/L	500	486	97	85-115	
Magnesium	ug/L	25000	24600	98	85-115	
Manganese	ug/L	500	492	98	85-115	
Nickel	ug/L	500	496	99	85-115	
Potassium	ug/L	25000	24400	98	85-115	
Sodium	ug/L	25000	25200	101	85-115	
Zinc	ug/L	500	494	99	85-115	

MATRIX SPIKE SAMPLE: 1415221

Parameter	Units	70234511006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1460	25000	24100	91	70-130	
Barium	ug/L	<0.20 mg/L	500	437	61	70-130	M1
Calcium	ug/L	49200	25000	71300	88	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1415221

Parameter	Units	70234511006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	0.036 mg/L	500	474	88	70-130	
Copper	ug/L	0.30 mg/L	500	748	89	70-130	
Iron	ug/L	9180	12500	20000	87	70-130	
Lead	ug/L	0.037 mg/L	500	455	84	70-130	
Magnesium	ug/L	25000	25000	46200	85	70-130	
Manganese	ug/L	0.32 mg/L	500	753	86	70-130	
Nickel	ug/L	0.11 mg/L	500	549	88	70-130	
Potassium	ug/L	74800	25000	102000	109	70-130	
Sodium	ug/L	941000	25000	968000	108	70-130	
Zinc	ug/L	0.54 mg/L	500	982	88	70-130	

MATRIX SPIKE SAMPLE: 1415223

Parameter	Units	70234511007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	4250	25000	28400	97	70-130	
Barium	ug/L	<0.20 mg/L	500	530	68	70-130	M1
Calcium	ug/L	192000	25000	231000	156	70-130	M1
Chromium	ug/L	0.63 mg/L	500	1150	104	70-130	
Copper	ug/L	0.42 mg/L	500	934	102	70-130	
Iron	ug/L	60800	12500	77100	130	70-130	
Lead	ug/L	0.010 mg/L	500	442	86	70-130	
Magnesium	ug/L	17500	25000	40300	91	70-130	
Manganese	ug/L	2.2 mg/L	500	2810	128	70-130	
Nickel	ug/L	0.087 mg/L	500	550	93	70-130	
Potassium	ug/L	63200	25000	101000	151	70-130	M1
Sodium	ug/L	1990000	25000	2160000	680	70-130	E,M1
Zinc	ug/L	1.0 mg/L	500	1530	106	70-130	

SAMPLE DUPLICATE: 1415220

Parameter	Units	70234511006 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	1460	1530	5	
Barium	ug/L	<0.20 mg/L	135J		
Calcium	ug/L	49200	50900	3	
Chromium	ug/L	0.036 mg/L	36.0	1	
Copper	ug/L	0.30 mg/L	309	2	
Iron	ug/L	9180	9390	2	
Lead	ug/L	0.037 mg/L	38.5	3	
Magnesium	ug/L	25000	25700	3	
Manganese	ug/L	0.32 mg/L	330	2	
Nickel	ug/L	0.11 mg/L	113	3	
Potassium	ug/L	74800	76800	3	
Sodium	ug/L	941000	962000	2	
Zinc	ug/L	0.54 mg/L	557	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1415222

Parameter	Units	70234511007 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	4250	4560	7	
Barium	ug/L	<0.20 mg/L	206		
Calcium	ug/L	192000	206000	7	
Chromium	ug/L	0.63 mg/L	675	7	
Copper	ug/L	0.42 mg/L	458	7	
Iron	ug/L	60800	65200	7	
Lead	ug/L	0.010 mg/L	9.9	4	
Magnesium	ug/L	17500	18800	7	
Manganese	ug/L	2.2 mg/L	2320	7	
Nickel	ug/L	0.087 mg/L	94.5	8	
Potassium	ug/L	63200	67300	6	
Sodium	ug/L	1990000	2130000	7	E
Zinc	ug/L	1.0 mg/L	1070	7	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280515
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1418164 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/04/22 13:20	
Barium	ug/L	<200	200	11/04/22 13:20	
Calcium	ug/L	<200	200	11/04/22 13:20	
Chromium	ug/L	<10.0	10.0	11/04/22 13:20	
Copper	ug/L	<25.0	25.0	11/04/22 13:20	
Iron	ug/L	<100	100	11/04/22 13:20	
Lead	ug/L	2.6J	5.0	11/04/22 13:20	
Magnesium	ug/L	<200	200	11/04/22 13:20	
Manganese	ug/L	<10.0	10.0	11/04/22 13:20	
Nickel	ug/L	<40.0	40.0	11/04/22 13:20	
Potassium	ug/L	<5000	5000	11/04/22 13:20	
Sodium	ug/L	<5000	5000	11/04/22 13:20	
Zinc	ug/L	<20.0	20.0	11/04/22 13:20	

LABORATORY CONTROL SAMPLE: 1418165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24400	98	85-115	
Barium	ug/L	500	490	98	85-115	
Calcium	ug/L	25000	24700	99	85-115	
Chromium	ug/L	500	485	97	85-115	
Copper	ug/L	500	484	97	85-115	
Iron	ug/L	12500	12500	100	85-115	
Lead	ug/L	500	495	99	85-115	
Magnesium	ug/L	25000	24500	98	85-115	
Manganese	ug/L	500	492	98	85-115	
Nickel	ug/L	500	494	99	85-115	
Potassium	ug/L	25000	24800	99	85-115	
Sodium	ug/L	25000	25100	100	85-115	
Zinc	ug/L	500	493	99	85-115	

MATRIX SPIKE SAMPLE: 1418167

Parameter	Units	30528551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	12500	11300	90	70-130	
Barium	ug/L	347	500	802	91	70-130	
Calcium	ug/L	168000	12500	182000	112	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1418167

Parameter	Units	30528551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	ND	500	446	89	70-130	
Copper	ug/L	100	500	542	88	70-130	
Iron	ug/L	15400	5000	20200	96	70-130	
Lead	ug/L	ND	500	442	88	70-130	
Magnesium	ug/L	31900	12500	43800	95	70-130	
Manganese	ug/L	603	500	1060	91	70-130	
Nickel	ug/L	ND	500	448	85	70-130	
Potassium	ug/L	9990	12500	22700	102	70-130	
Sodium	ug/L	56300	12500	70800	116	70-130	
Zinc	ug/L	61.2	500	504	89	70-130	

MATRIX SPIKE SAMPLE: 1418169

Parameter	Units	70234464005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	11200	89	70-130	
Barium	ug/L	58.0J	500	503	89	70-130	
Calcium	ug/L	10500	12500	22900	99	70-130	
Chromium	ug/L	1.6J	500	448	89	70-130	
Copper	ug/L	<25.0	500	450	90	70-130	
Iron	ug/L	41.3J	5000	4550	90	70-130	
Lead	ug/L	2.3J	500	454	90	70-130	
Magnesium	ug/L	6600	12500	18200	93	70-130	
Manganese	ug/L	233	500	682	90	70-130	
Nickel	ug/L	7.2J	500	437	86	70-130	
Potassium	ug/L	10200	12500	21600	91	70-130	
Sodium	ug/L	55300	12500	71200	127	70-130	
Zinc	ug/L	<20.0	500	459	91	70-130	

SAMPLE DUPLICATE: 1418166

Parameter	Units	30528551001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	ND	37.6J		
Barium	ug/L	347	341	2	
Calcium	ug/L	168000	165000	2	
Chromium	ug/L	ND	1.4J		
Copper	ug/L	100	98.1	2	
Iron	ug/L	15400	15100	2	
Lead	ug/L	ND	<5.0		
Magnesium	ug/L	31900	31200	2	
Manganese	ug/L	603	592	2	
Nickel	ug/L	ND	21.6J		
Potassium	ug/L	9990	9740	3	
Sodium	ug/L	56300	55000	2	
Zinc	ug/L	61.2	60.3	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1418168

Parameter	Units	70234464005 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	58.0J	58.3J		
Calcium	ug/L	10500	10600	1	
Chromium	ug/L	1.6J	1.5J		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	41.3J	40.1J		
Lead	ug/L	2.3J	3.0J		
Magnesium	ug/L	6600	6660	1	
Manganese	ug/L	233	236	1	
Nickel	ug/L	7.2J	6.8J		
Potassium	ug/L	10200	9680	5	
Sodium	ug/L	55300	55600	1	
Zinc	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280944
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1420259 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/07/22 14:58	
Barium	ug/L	<200	200	11/07/22 14:58	
Calcium	ug/L	<200	200	11/07/22 14:58	
Chromium	ug/L	<10.0	10.0	11/07/22 14:58	
Copper	ug/L	<25.0	25.0	11/07/22 14:58	
Iron	ug/L	<100	100	11/07/22 14:58	
Lead	ug/L	<5.0	5.0	11/07/22 14:58	
Magnesium	ug/L	<200	200	11/07/22 14:58	
Manganese	ug/L	<10.0	10.0	11/07/22 14:58	
Nickel	ug/L	<40.0	40.0	11/07/22 14:58	
Potassium	ug/L	<5000	5000	11/07/22 14:58	
Sodium	ug/L	<5000	5000	11/07/22 14:58	
Zinc	ug/L	<20.0	20.0	11/07/22 14:58	

LABORATORY CONTROL SAMPLE: 1420260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24600	98	85-115	
Barium	ug/L	500	499	100	85-115	
Calcium	ug/L	25000	25000	100	85-115	
Chromium	ug/L	500	497	99	85-115	
Copper	ug/L	500	487	97	85-115	
Iron	ug/L	12500	12200	97	85-115	
Lead	ug/L	500	503	101	85-115	
Magnesium	ug/L	25000	24500	98	85-115	
Manganese	ug/L	500	491	98	85-115	
Nickel	ug/L	500	500	100	85-115	
Potassium	ug/L	25000	24800	99	85-115	
Sodium	ug/L	25000	25300	101	85-115	
Zinc	ug/L	500	495	99	85-115	

MATRIX SPIKE SAMPLE: 1420262

Parameter	Units	70235147003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12300	98	70-130	
Barium	ug/L	<200	500	493	99	70-130	
Calcium	ug/L	<200	12500	13100	105	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1420262

Parameter	Units	70235147003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	<10.0	500	497	99	70-130	
Copper	ug/L	<25.0	500	487	97	70-130	
Iron	ug/L	<100	5000	4830	96	70-130	
Lead	ug/L	<5.0	500	503	101	70-130	
Magnesium	ug/L	<200	12500	12200	98	70-130	
Manganese	ug/L	<10.0	500	491	98	70-130	
Nickel	ug/L	<40.0	500	483	96	70-130	
Potassium	ug/L	<5000	12500	12400	97	70-130	
Sodium	ug/L	<5000	12500	14000	111	70-130	
Zinc	ug/L	<20.0	500	497	99	70-130	

MATRIX SPIKE SAMPLE: 1420264

Parameter	Units	70234464015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	73.2J	12500	11600	92	70-130	
Barium	ug/L	53.0J	500	517	93	70-130	
Calcium	ug/L	4330	12500	16500	97	70-130	
Chromium	ug/L	<10.0	500	460	92	70-130	
Copper	ug/L	<25.0	500	455	91	70-130	
Iron	ug/L	27.6J	5000	4480	89	70-130	
Lead	ug/L	<5.0	500	466	93	70-130	
Magnesium	ug/L	4290	12500	15700	91	70-130	
Manganese	ug/L	98.0	500	552	91	70-130	
Nickel	ug/L	10.1J	500	454	89	70-130	
Potassium	ug/L	3820J	12500	15400	93	70-130	
Sodium	ug/L	14400	12500	28000	109	70-130	
Zinc	ug/L	11.8J	500	473	92	70-130	

SAMPLE DUPLICATE: 1420261

Parameter	Units	70235147003 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	<200		
Calcium	ug/L	<200	<200		
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	<200	<200		
Manganese	ug/L	<10.0	<10.0		
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	<5000	<5000		
Sodium	ug/L	<5000	<5000		
Zinc	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1420263

Parameter	Units	70234464015 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	73.2J	58.7J		
Barium	ug/L	53.0J	53.5J		
Calcium	ug/L	4330	4380	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	27.6J	25.3J		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	4290	4320	1	
Manganese	ug/L	98.0	98.7	1	
Nickel	ug/L	10.1J	10.5J		
Potassium	ug/L	3820J	3680J		
Sodium	ug/L	14400	14400	0	
Zinc	ug/L	11.8J	13.2J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281137
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1421078 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/08/22 18:45	
Barium	ug/L	<200	200	11/08/22 18:45	
Calcium	ug/L	<200	200	11/08/22 18:45	
Chromium	ug/L	<10.0	10.0	11/08/22 18:45	
Copper	ug/L	<25.0	25.0	11/08/22 18:45	
Iron	ug/L	<100	100	11/08/22 18:45	
Lead	ug/L	<5.0	5.0	11/08/22 18:45	
Magnesium	ug/L	<200	200	11/08/22 18:45	
Manganese	ug/L	<10.0	10.0	11/08/22 18:45	
Nickel	ug/L	<40.0	40.0	11/08/22 18:45	
Potassium	ug/L	<5000	5000	11/08/22 18:45	
Sodium	ug/L	<5000	5000	11/09/22 15:57	
Zinc	ug/L	<20.0	20.0	11/08/22 18:45	

LABORATORY CONTROL SAMPLE: 1421079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	25500	102	85-115	
Barium	ug/L	500	510	102	85-115	
Calcium	ug/L	25000	25900	104	85-115	
Chromium	ug/L	500	505	101	85-115	
Copper	ug/L	500	511	102	85-115	
Iron	ug/L	12500	12800	103	85-115	
Lead	ug/L	500	512	102	85-115	
Magnesium	ug/L	25000	26000	104	85-115	
Manganese	ug/L	500	510	102	85-115	
Nickel	ug/L	500	518	104	85-115	
Potassium	ug/L	25000	26900	108	85-115	
Sodium	ug/L	25000	25400	102	85-115	
Zinc	ug/L	500	513	103	85-115	

MATRIX SPIKE SAMPLE: 1421081

Parameter	Units	70235563017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	13100	104	70-130	
Barium	ug/L	<200	500	502	100	70-130	
Calcium	ug/L	35900	12500	49100	106	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1421081

Parameter	Units	70235563017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	74.6	500	559	97	70-130	
Copper	ug/L	123	500	615	98	70-130	
Iron	ug/L	240	5000	5180	99	70-130	
Lead	ug/L	<5.0	500	488	97	70-130	
Magnesium	ug/L	6010	12500	18100	97	70-130	
Manganese	ug/L	726	500	1230	101	70-130	
Nickel	ug/L	455	500	928	95	70-130	
Potassium	ug/L	5350	12500	23800	148	70-130	M1
Sodium	ug/L	752000	12500	767000	120	70-130	
Zinc	ug/L	111	500	618	101	70-130	

MATRIX SPIKE SAMPLE: 1421083

Parameter	Units	70235687003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12700	102	70-130	
Barium	ug/L	<200	500	560	101	70-130	
Calcium	ug/L	37000	12500	50800	110	70-130	
Chromium	ug/L	<10.0	500	501	99	70-130	
Copper	ug/L	195	500	697	100	70-130	
Iron	ug/L	5950	5000	10900	100	70-130	
Lead	ug/L	<5.0	500	503	100	70-130	
Magnesium	ug/L	6330	12500	19000	101	70-130	
Manganese	ug/L	3090	500	3580	98	70-130	
Nickel	ug/L	<40.0	500	502	96	70-130	
Potassium	ug/L	5940	12500	19900	112	70-130	
Sodium	ug/L	52900	12500	68600	126	70-130	
Zinc	ug/L	334	500	843	102	70-130	

SAMPLE DUPLICATE: 1421080

Parameter	Units	70235563017 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	148J		
Barium	ug/L	<200	<200		
Calcium	ug/L	35900	36400	1	
Chromium	ug/L	74.6	76.1	2	
Copper	ug/L	123	125	2	
Iron	ug/L	240	241	1	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	6010	6100	1	
Manganese	ug/L	726	739	2	
Nickel	ug/L	455	463	2	
Potassium	ug/L	5350	5360	0	
Sodium	ug/L	752000	751000	0	
Zinc	ug/L	111	112	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1421082

Parameter	Units	70235687003 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	56.0J		
Calcium	ug/L	37000	37000	0	
Chromium	ug/L	<10.0	7.8J		
Copper	ug/L	195	195	0	
Iron	ug/L	5950	5930	0	
Lead	ug/L	<5.0	2.3J		
Magnesium	ug/L	6330	6330	0	
Manganese	ug/L	3090	3080	0	
Nickel	ug/L	<40.0	21.6J		
Potassium	ug/L	5940	5860	1	
Sodium	ug/L	52900	53900	2	
Zinc	ug/L	334	334	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281345
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1422254 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/09/22 17:45	
Barium	ug/L	<200	200	11/09/22 17:45	
Calcium	ug/L	<200	200	11/09/22 17:45	
Chromium	ug/L	<10.0	10.0	11/09/22 17:45	
Copper	ug/L	<25.0	25.0	11/09/22 17:45	
Iron	ug/L	<100	100	11/09/22 17:45	
Lead	ug/L	<5.0	5.0	11/09/22 17:45	
Magnesium	ug/L	<200	200	11/09/22 17:45	
Manganese	ug/L	<10.0	10.0	11/09/22 17:45	
Nickel	ug/L	<40.0	40.0	11/09/22 17:45	
Potassium	ug/L	<5000	5000	11/09/22 17:45	
Sodium	ug/L	<5000	5000	11/09/22 17:45	
Zinc	ug/L	<20.0	20.0	11/09/22 17:45	

LABORATORY CONTROL SAMPLE: 1422255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24800	99	85-115	
Barium	ug/L	500	497	99	85-115	
Calcium	ug/L	25000	24800	99	85-115	
Chromium	ug/L	500	507	101	85-115	
Copper	ug/L	500	505	101	85-115	
Iron	ug/L	12500	12200	97	85-115	
Lead	ug/L	500	511	102	85-115	
Magnesium	ug/L	25000	24900	100	85-115	
Manganese	ug/L	500	518	104	85-115	
Nickel	ug/L	500	525	105	85-115	
Potassium	ug/L	25000	24600	98	85-115	
Sodium	ug/L	25000	24700	99	85-115	
Zinc	ug/L	500	515	103	85-115	

MATRIX SPIKE SAMPLE: 1422257

Parameter	Units	70235558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<0.20 mg/L	12500	12800	101	70-130	
Barium	ug/L	<0.20 mg/L	500	528	101	70-130	
Calcium	ug/L	110 mg/L	12500	124000	112	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1422257

Parameter	Units	70235558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	<0.010 mg/L	500	511	102	70-130	
Copper	ug/L	<0.025 mg/L	500	531	101	70-130	
Iron	ug/L	2.2 mg/L	5000	7120	98	70-130	
Lead	ug/L	<0.0050 mg/L	500	512	102	70-130	
Magnesium	ug/L	7.4 mg/L	12500	19700	99	70-130	
Manganese	ug/L	0.11 mg/L	500	629	103	70-130	
Nickel	ug/L	<0.040 mg/L	500	519	97	70-130	
Potassium	ug/L	30.0 mg/L	12500	44200	114	70-130	
Sodium	ug/L	47.9 mg/L	12500	63000	121	70-130	
Zinc	ug/L	0.17 mg/L	500	687	104	70-130	

MATRIX SPIKE SAMPLE: 1422259

Parameter	Units	70235726001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12800	102	70-130	
Barium	ug/L	<200	500	511	99	70-130	
Calcium	ug/L	3140	12500	15800	101	70-130	
Chromium	ug/L	<10.0	500	501	100	70-130	
Copper	ug/L	<25.0	500	507	100	70-130	
Iron	ug/L	<100	5000	4820	95	70-130	
Lead	ug/L	<5.0	500	505	101	70-130	
Magnesium	ug/L	1170	12500	13200	96	70-130	
Manganese	ug/L	<10.0	500	517	102	70-130	
Nickel	ug/L	<40.0	500	484	96	70-130	
Potassium	ug/L	<5000	12500	16700	109	70-130	
Sodium	ug/L	168000	12500	182000	112	70-130	
Zinc	ug/L	299	500	802	101	70-130	

SAMPLE DUPLICATE: 1422256

Parameter	Units	70235558001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<0.20 mg/L	177J		
Barium	ug/L	<0.20 mg/L	25.0J		
Calcium	ug/L	110 mg/L	109000	1	
Chromium	ug/L	<0.010 mg/L	<10.0		
Copper	ug/L	<0.025 mg/L	25.1		
Iron	ug/L	2.2 mg/L	2190	1	
Lead	ug/L	<0.0050 mg/L	<5.0		
Magnesium	ug/L	7.4 mg/L	7340	0	
Manganese	ug/L	0.11 mg/L	112	1	
Nickel	ug/L	<0.040 mg/L	34.2J		
Potassium	ug/L	30.0 mg/L	30200	1	
Sodium	ug/L	47.9 mg/L	48200	1	
Zinc	ug/L	0.17 mg/L	166	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1422258

Parameter	Units	70235726001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	88.8J		
Barium	ug/L	<200	17.2J		
Calcium	ug/L	3140	3110	1	
Chromium	ug/L	<10.0	2.1J		
Copper	ug/L	<25.0	4.9J		
Iron	ug/L	<100	44.0J		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	1170	1160	1	
Manganese	ug/L	<10.0	7.7J		
Nickel	ug/L	<40.0	6.3J		
Potassium	ug/L	<5000	2850J		
Sodium	ug/L	168000	166000	1	
Zinc	ug/L	299	296	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279850
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464001, 70234464002, 70234464004, 70234464005, 70234464006, 70234464007

METHOD BLANK: 1414731 Matrix: Water
Associated Lab Samples: 70234464001, 70234464002, 70234464004, 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/28/22 15:35	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/28/22 15:35	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/28/22 15:35	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	10/28/22 15:35	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/28/22 15:35	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/28/22 15:35	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/28/22 15:35	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/28/22 15:35	
Benzene	ug/L	<1.0	1.0	10/28/22 15:35	
Bromodichloromethane	ug/L	<1.0	1.0	10/28/22 15:35	
Bromoform	ug/L	<1.0	1.0	10/28/22 15:35	
Carbon tetrachloride	ug/L	<1.0	1.0	10/28/22 15:35	
Chlorobenzene	ug/L	<1.0	1.0	10/28/22 15:35	
Chloroethane	ug/L	<1.0	1.0	10/28/22 15:35	
Chloroform	ug/L	<1.0	1.0	10/28/22 15:35	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/28/22 15:35	
Dibromochloromethane	ug/L	<1.0	1.0	10/28/22 15:35	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/28/22 15:35	v3
Ethylbenzene	ug/L	<1.0	1.0	10/28/22 15:35	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/28/22 15:35	
m&p-Xylene	ug/L	<2.0	2.0	10/28/22 15:35	
Methylene Chloride	ug/L	<1.0	1.0	10/28/22 15:35	
n-Butylbenzene	ug/L	<1.0	1.0	10/28/22 15:35	
o-Xylene	ug/L	<1.0	1.0	10/28/22 15:35	
tert-Butylbenzene	ug/L	<1.0	1.0	10/28/22 15:35	
Tetrachloroethene	ug/L	<1.0	1.0	10/28/22 15:35	
Toluene	ug/L	<1.0	1.0	10/28/22 15:35	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/28/22 15:35	
Trichloroethene	ug/L	<1.0	1.0	10/28/22 15:35	
Vinyl chloride	ug/L	<1.0	1.0	10/28/22 15:35	v3
Xylene (Total)	ug/L	<3.0	3.0	10/28/22 15:35	
1,2-Dichloroethane-d4 (S)	%	102	81-122	10/28/22 15:35	
4-Bromofluorobenzene (S)	%	93	79-118	10/28/22 15:35	
Toluene-d8 (S)	%	99	82-122	10/28/22 15:35	

LABORATORY CONTROL SAMPLE: 1414732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	72-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

LABORATORY CONTROL SAMPLE: 1414732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	49.6	99	72-126	
1,1-Dichloroethene	ug/L	50	42.7	85	66-133	
1,2-Dichlorobenzene	ug/L	50	51.0	102	80-117	
1,2-Dichloroethane	ug/L	50	55.4	111	69-134	
1,2-Dichloropropane	ug/L	50	54.3	109	75-125	
1,3-Dichlorobenzene	ug/L	50	48.8	98	82-116	
1,4-Dichlorobenzene	ug/L	50	48.9	98	80-117	
Benzene	ug/L	50	56.0	112	78-117	
Bromodichloromethane	ug/L	50	57.9	116	80-123	
Bromoform	ug/L	50	56.0	112	49-138	
Carbon tetrachloride	ug/L	50	48.0	96	64-135	
Chlorobenzene	ug/L	50	51.9	104	79-117	
Chloroethane	ug/L	50	51.7	103	31-156	
Chloroform	ug/L	50	52.7	105	79-123	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	77-125	
Dibromochloromethane	ug/L	50	58.5	117	65-123	
Dichlorodifluoromethane	ug/L	50	26.4	53	13-149	v3
Ethylbenzene	ug/L	50	50.8	102	79-115	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	74-118	
m&p-Xylene	ug/L	100	104	104	80-118	
Methylene Chloride	ug/L	50	45.0	90	67-123	
n-Butylbenzene	ug/L	50	52.1	104	74-126	
o-Xylene	ug/L	50	51.4	103	80-119	
tert-Butylbenzene	ug/L	50	50.3	101	77-118	
Tetrachloroethene	ug/L	50	53.9	108	65-120	
Toluene	ug/L	50	53.4	107	80-114	
trans-1,2-Dichloroethene	ug/L	50	43.6	87	74-123	
Trichloroethene	ug/L	50	54.1	108	79-115	
Vinyl chloride	ug/L	50	38.0	76	49-118	v3
Xylene (Total)	ug/L	150	155	103	80-118	
1,2-Dichloroethane-d4 (S)	%			103	81-122	
4-Bromofluorobenzene (S)	%			97	79-118	
Toluene-d8 (S)	%			98	82-122	

MATRIX SPIKE SAMPLE: 1415187

Parameter	Units	70233766011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	51.7	103	72-123	
1,1-Dichloroethane	ug/L	<1.0	50	52.7	105	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	46.4	93	61-139	
1,2-Dichlorobenzene	ug/L	<1.0	50	52.1	104	75-120	
1,2-Dichloroethane	ug/L	<1.0	50	57.6	115	58-138	
1,2-Dichloropropane	ug/L	<1.0	50	56.5	113	74-122	
1,3-Dichlorobenzene	ug/L	<1.0	50	50.1	100	78-119	
1,4-Dichlorobenzene	ug/L	<1.0	50	50.4	101	76-118	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1415187

Parameter	Units	70233766011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	<1.0	50	57.7	115	70-130	
Bromodichloromethane	ug/L	<1.0	50	57.1	114	74-122	
Bromoform	ug/L	<1.0	50	51.9	104	39-139	
Carbon tetrachloride	ug/L	<1.0	50	47.3	95	56-143	
Chlorobenzene	ug/L	<1.0	50	52.8	106	74-122	
Chloroethane	ug/L	<1.0	50	60.0	120	35-146	
Chloroform	ug/L	<1.0	50	54.7	109	71-129	
cis-1,2-Dichloroethene	ug/L	<1.0	50	49.7	99	73-129	
Dibromochloromethane	ug/L	<1.0	50	57.2	114	55-126	
Dichlorodifluoromethane	ug/L	<1.0	50	27.6	55	10-123	v3
Ethylbenzene	ug/L	<1.0	50	51.8	104	70-126	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	51.7	103	68-127	
m&p-Xylene	ug/L	<2.0	100	105	105	79-123	
Methylene Chloride	ug/L	<1.0	50	45.6	91	69-117	
n-Butylbenzene	ug/L	<1.0	50	53.9	108	64-136	
o-Xylene	ug/L	<1.0	50	52.1	104	57-139	
tert-Butylbenzene	ug/L	<1.0	50	52.8	106	71-126	
Tetrachloroethene	ug/L	<1.0	50	53.7	107	64-124	
Toluene	ug/L	<1.0	50	54.3	109	76-123	
trans-1,2-Dichloroethene	ug/L	<1.0	50	47.4	95	69-127	
Trichloroethene	ug/L	<1.0	50	55.2	110	73-125	
Vinyl chloride	ug/L	<1.0	50	41.2	82	33-127	v3
Xylene (Total)	ug/L	<3.0	150	157	105	78-123	
1,2-Dichloroethane-d4 (S)	%				107	81-122	
4-Bromofluorobenzene (S)	%				98	79-118	
Toluene-d8 (S)	%				97	82-122	

SAMPLE DUPLICATE: 1415186

Parameter	Units	70233766013 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	4.2	3.9	5	
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	<1.0	<1.0		
Benzene	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1415186

Parameter	Units	70233766013 Result	Dup Result	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	4.5	4.2	7	
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		v3
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
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	5.5	5.4	3	
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	9.7	9.1	7	
Vinyl chloride	ug/L	<1.0	<1.0		v3
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	106	105		
4-Bromofluorobenzene (S)	%	92	91		
Toluene-d8 (S)	%	97	96		

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REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280391
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464011, 70234464012, 70234464014, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1417265 Matrix: Water
Associated Lab Samples: 70234464011, 70234464012, 70234464014, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/02/22 12:55	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/02/22 12:55	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/02/22 12:55	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/02/22 12:55	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/02/22 12:55	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/02/22 12:55	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/02/22 12:55	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/02/22 12:55	
Benzene	ug/L	<1.0	1.0	11/02/22 12:55	
Bromodichloromethane	ug/L	<1.0	1.0	11/02/22 12:55	
Bromoform	ug/L	<1.0	1.0	11/02/22 12:55	
Carbon tetrachloride	ug/L	<1.0	1.0	11/02/22 12:55	
Chlorobenzene	ug/L	<1.0	1.0	11/02/22 12:55	
Chloroethane	ug/L	<1.0	1.0	11/02/22 12:55	
Chloroform	ug/L	<1.0	1.0	11/02/22 12:55	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/02/22 12:55	
Dibromochloromethane	ug/L	<1.0	1.0	11/02/22 12:55	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/02/22 12:55	v3
Ethylbenzene	ug/L	<1.0	1.0	11/02/22 12:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/02/22 12:55	
m&p-Xylene	ug/L	<2.0	2.0	11/02/22 12:55	
Methylene Chloride	ug/L	<1.0	1.0	11/02/22 12:55	
n-Butylbenzene	ug/L	<1.0	1.0	11/02/22 12:55	
o-Xylene	ug/L	<1.0	1.0	11/02/22 12:55	
tert-Butylbenzene	ug/L	<1.0	1.0	11/02/22 12:55	
Tetrachloroethene	ug/L	<1.0	1.0	11/02/22 12:55	
Toluene	ug/L	<1.0	1.0	11/02/22 12:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/02/22 12:55	
Trichloroethene	ug/L	<1.0	1.0	11/02/22 12:55	
Vinyl chloride	ug/L	<1.0	1.0	11/02/22 12:55	v3
Xylene (Total)	ug/L	<3.0	3.0	11/02/22 12:55	
1,2-Dichloroethane-d4 (S)	%	104	81-122	11/02/22 12:55	
4-Bromofluorobenzene (S)	%	95	79-118	11/02/22 12:55	
Toluene-d8 (S)	%	106	82-122	11/02/22 12:55	

LABORATORY CONTROL SAMPLE: 1417266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	41.6	83	72-126	

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

LABORATORY CONTROL SAMPLE: 1417266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	41.2	82	72-126	
1,1-Dichloroethene	ug/L	50	41.6	83	66-133	
1,2-Dichlorobenzene	ug/L	50	49.9	100	80-117	
1,2-Dichloroethane	ug/L	50	46.8	94	69-134	
1,2-Dichloropropane	ug/L	50	46.2	92	75-125	
1,3-Dichlorobenzene	ug/L	50	47.0	94	82-116	
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117	
Benzene	ug/L	50	46.4	93	78-117	
Bromodichloromethane	ug/L	50	50.0	100	80-123	
Bromoform	ug/L	50	52.6	105	49-138	
Carbon tetrachloride	ug/L	50	38.5	77	64-135	
Chlorobenzene	ug/L	50	49.5	99	79-117	
Chloroethane	ug/L	50	50.3	101	31-156	v1
Chloroform	ug/L	50	46.2	92	79-123	
cis-1,2-Dichloroethene	ug/L	50	43.7	87	77-125	
Dibromochloromethane	ug/L	50	56.3	113	65-123	
Dichlorodifluoromethane	ug/L	50	20.0	40	13-149	v3
Ethylbenzene	ug/L	50	45.5	91	79-115	
Isopropylbenzene (Cumene)	ug/L	50	43.9	88	74-118	
m&p-Xylene	ug/L	100	91.6	92	80-118	
Methylene Chloride	ug/L	50	38.9	78	67-123	
n-Butylbenzene	ug/L	50	42.0	84	74-126	
o-Xylene	ug/L	50	47.2	94	80-119	
tert-Butylbenzene	ug/L	50	41.9	84	77-118	
Tetrachloroethene	ug/L	50	45.0	90	65-120	
Toluene	ug/L	50	45.6	91	80-114	
trans-1,2-Dichloroethene	ug/L	50	42.5	85	74-123	
Trichloroethene	ug/L	50	44.5	89	79-115	
Vinyl chloride	ug/L	50	28.8	58	49-118	v3
Xylene (Total)	ug/L	150	139	93	80-118	
1,2-Dichloroethane-d4 (S)	%			108	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			105	82-122	

MATRIX SPIKE SAMPLE: 1417959

Parameter	Units	70234580012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	46.5	93	72-123	
1,1-Dichloroethane	ug/L	1.5	50	47.1	91	70-124	
1,1-Dichloroethene	ug/L	ND	50	49.1	98	61-139	
1,2-Dichlorobenzene	ug/L	ND	50	50.6	101	75-120	
1,2-Dichloroethane	ug/L	ND	50	49.0	98	58-138	
1,2-Dichloropropane	ug/L	ND	50	47.0	94	74-122	
1,3-Dichlorobenzene	ug/L	ND	50	49.5	99	78-119	
1,4-Dichlorobenzene	ug/L	ND	50	49.9	100	76-118	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE SAMPLE: 1417959

Parameter	Units	70234580012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	50	51.9	104	70-130	
Bromodichloromethane	ug/L	ND	50	49.8	100	74-122	
Bromoform	ug/L	ND	50	49.2	98	39-139	
Carbon tetrachloride	ug/L	ND	50	46.2	92	56-143	
Chlorobenzene	ug/L	ND	50	51.8	104	74-122	
Chloroethane	ug/L	ND	50	56.4	113	35-146	v1
Chloroform	ug/L	ND	50	49.1	98	71-129	
cis-1,2-Dichloroethene	ug/L	3.3	50	48.7	91	73-129	
Dibromochloromethane	ug/L	ND	50	54.5	109	55-126	
Dichlorodifluoromethane	ug/L	1.1	50	40.2	78	10-123	v3
Ethylbenzene	ug/L	ND	50	53.3	107	70-126	
Isopropylbenzene (Cumene)	ug/L	ND	50	54.6	109	68-127	
m&p-Xylene	ug/L	ND	100	106	106	79-123	
Methylene Chloride	ug/L	ND	50	44.6	89	69-117	
n-Butylbenzene	ug/L	ND	50	49.8	100	64-136	
o-Xylene	ug/L	ND	50	50.8	102	57-139	
tert-Butylbenzene	ug/L	ND	50	52.3	105	71-126	
Tetrachloroethene	ug/L	2.7	50	55.8	106	64-124	
Toluene	ug/L	ND	50	52.9	106	76-123	
trans-1,2-Dichloroethene	ug/L	ND	50	50.1	100	69-127	
Trichloroethene	ug/L	1.8	50	52.8	102	73-125	
Vinyl chloride	ug/L	ND	50	37.0	74	33-127	v3
Xylene (Total)	ug/L	ND	150	157	105	78-123	
1,2-Dichloroethane-d4 (S)	%				105	81-122	
4-Bromofluorobenzene (S)	%				101	79-118	
Toluene-d8 (S)	%				104	82-122	

SAMPLE DUPLICATE: 1417754

Parameter	Units	70234580009 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethane	ug/L	2.9	2.8	3	
1,1-Dichloroethene	ug/L	ND	<1.0		
1,2-Dichlorobenzene	ug/L	ND	<1.0		
1,2-Dichloroethane	ug/L	ND	<1.0		
1,2-Dichloropropane	ug/L	ND	<1.0		
1,3-Dichlorobenzene	ug/L	ND	<1.0		
1,4-Dichlorobenzene	ug/L	3.5	3.7	6	
Benzene	ug/L	ND	<1.0		
Bromodichloromethane	ug/L	ND	<1.0		
Bromoform	ug/L	ND	<1.0		
Carbon tetrachloride	ug/L	ND	<1.0		
Chlorobenzene	ug/L	1.4	1.4	2	
Chloroethane	ug/L	ND	<1.0		
Chloroform	ug/L	ND	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1417754

Parameter	Units	70234580009 Result	Dup Result	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	6.6	6.5	0	
Dibromochloromethane	ug/L	ND	<1.0		
Dichlorodifluoromethane	ug/L	ND	<1.0		v3
Ethylbenzene	ug/L	ND	<1.0		
Isopropylbenzene (Cumene)	ug/L	ND	<1.0		
m&p-Xylene	ug/L	ND	<2.0		
Methylene Chloride	ug/L	ND	<1.0		
n-Butylbenzene	ug/L	ND	<1.0		
o-Xylene	ug/L	ND	<1.0		
tert-Butylbenzene	ug/L	ND	<1.0		
Tetrachloroethene	ug/L	2.0	2.2	11	
Toluene	ug/L	ND	<1.0		
trans-1,2-Dichloroethene	ug/L	ND	<1.0		
Trichloroethene	ug/L	8.1	7.8	3	
Vinyl chloride	ug/L	ND	1.3		v3
Xylene (Total)	ug/L	ND	<3.0		
1,2-Dichloroethane-d4 (S)	%	106	106		
4-Bromofluorobenzene (S)	%	95	97		
Toluene-d8 (S)	%	105	106		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280925
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464021, 70234464022, 70234464024, 70234464026

METHOD BLANK: 1420207 Matrix: Water
Associated Lab Samples: 70234464021, 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/06/22 12:58	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/06/22 12:58	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/06/22 12:58	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/06/22 12:58	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/06/22 12:58	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/06/22 12:58	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/06/22 12:58	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/06/22 12:58	
Benzene	ug/L	<1.0	1.0	11/06/22 12:58	
Bromodichloromethane	ug/L	<1.0	1.0	11/06/22 12:58	
Bromoform	ug/L	<1.0	1.0	11/06/22 12:58	
Carbon tetrachloride	ug/L	<1.0	1.0	11/06/22 12:58	
Chlorobenzene	ug/L	<1.0	1.0	11/06/22 12:58	
Chloroethane	ug/L	<1.0	1.0	11/06/22 12:58	
Chloroform	ug/L	<1.0	1.0	11/06/22 12:58	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/06/22 12:58	
Dibromochloromethane	ug/L	<1.0	1.0	11/06/22 12:58	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/06/22 12:58	
Ethylbenzene	ug/L	<1.0	1.0	11/06/22 12:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/06/22 12:58	
m&p-Xylene	ug/L	<2.0	2.0	11/06/22 12:58	
Methylene Chloride	ug/L	<1.0	1.0	11/06/22 12:58	
n-Butylbenzene	ug/L	<1.0	1.0	11/06/22 12:58	
o-Xylene	ug/L	<1.0	1.0	11/06/22 12:58	
tert-Butylbenzene	ug/L	<1.0	1.0	11/06/22 12:58	
Tetrachloroethene	ug/L	<1.0	1.0	11/06/22 12:58	
Toluene	ug/L	<1.0	1.0	11/06/22 12:58	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/06/22 12:58	
Trichloroethene	ug/L	<1.0	1.0	11/06/22 12:58	
Vinyl chloride	ug/L	<1.0	1.0	11/06/22 12:58	
Xylene (Total)	ug/L	<3.0	3.0	11/06/22 12:58	
1,2-Dichloroethane-d4 (S)	%	104	81-122	11/06/22 12:58	
4-Bromofluorobenzene (S)	%	91	79-118	11/06/22 12:58	
Toluene-d8 (S)	%	106	82-122	11/06/22 12:58	

LABORATORY CONTROL SAMPLE: 1420208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.0	86	72-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

LABORATORY CONTROL SAMPLE: 1420208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	41.4	83	72-126	
1,1-Dichloroethene	ug/L	50	51.9	104	66-133	
1,2-Dichlorobenzene	ug/L	50	50.5	101	80-117	
1,2-Dichloroethane	ug/L	50	47.4	95	69-134	
1,2-Dichloropropane	ug/L	50	47.5	95	75-125	
1,3-Dichlorobenzene	ug/L	50	47.8	96	82-116	
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117	
Benzene	ug/L	50	48.3	97	78-117	
Bromodichloromethane	ug/L	50	50.5	101	80-123	
Bromoform	ug/L	50	55.3	111	49-138	
Carbon tetrachloride	ug/L	50	41.6	83	64-135	
Chlorobenzene	ug/L	50	50.6	101	79-117	
Chloroethane	ug/L	50	56.9	114	31-156	v1
Chloroform	ug/L	50	46.3	93	79-123	
cis-1,2-Dichloroethene	ug/L	50	42.4	85	77-125	
Dibromochloromethane	ug/L	50	59.0	118	65-123	
Dichlorodifluoromethane	ug/L	50	42.9	86	13-149	
Ethylbenzene	ug/L	50	47.9	96	79-115	
Isopropylbenzene (Cumene)	ug/L	50	47.5	95	74-118	
m&p-Xylene	ug/L	100	97.5	97	80-118	
Methylene Chloride	ug/L	50	50.2	100	67-123	
n-Butylbenzene	ug/L	50	49.3	99	74-126	
o-Xylene	ug/L	50	49.1	98	80-119	
tert-Butylbenzene	ug/L	50	48.1	96	77-118	
Tetrachloroethene	ug/L	50	52.1	104	65-120	
Toluene	ug/L	50	47.6	95	80-114	
trans-1,2-Dichloroethene	ug/L	50	53.0	106	74-123	
Trichloroethene	ug/L	50	46.7	93	79-115	
Vinyl chloride	ug/L	50	38.4	77	49-118	
Xylene (Total)	ug/L	150	147	98	80-118	
1,2-Dichloroethane-d4 (S)	%			107	81-122	
4-Bromofluorobenzene (S)	%			102	79-118	
Toluene-d8 (S)	%			108	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1420230 1420231

Parameter	Units	70235441001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	43.9	42.3	88	85	72-123	4	
1,1-Dichloroethane	ug/L	ND	50	50	43.7	41.3	87	83	70-124	6	
1,1-Dichloroethene	ug/L	ND	50	50	44.5	41.4	89	83	61-139	7	
1,2-Dichlorobenzene	ug/L	ND	50	50	47.9	46.8	96	94	75-120	2	
1,2-Dichloroethane	ug/L	ND	50	50	47.5	46.3	95	93	58-138	3	
1,2-Dichloropropane	ug/L	ND	50	50	46.1	43.9	92	88	74-122	5	
1,3-Dichlorobenzene	ug/L	ND	50	50	45.2	44.3	90	89	78-119	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1420230 1420231

Parameter	Units	70235441001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	50	50	46.6	45.5	93	91	76-118	2	
Benzene	ug/L	ND	50	50	49.6	46.5	99	93	70-130	6	
Bromodichloromethane	ug/L	ND	50	50	49.8	47.9	100	96	74-122	4	
Bromoform	ug/L	ND	50	50	48.0	51.0	96	102	39-139	6	
Carbon tetrachloride	ug/L	ND	50	50	43.4	43.4	87	87	56-143	0	
Chlorobenzene	ug/L	ND	50	50	48.1	46.5	96	93	74-122	4	
Chloroethane	ug/L	ND	50	50	63.1	59.7	126	119	35-146	6	v1
Chloroform	ug/L	ND	50	50	48.0	45.9	96	92	71-129	4	
cis-1,2-Dichloroethene	ug/L	ND	50	50	44.4	43.0	89	86	73-129	3	
Dibromochloromethane	ug/L	ND	50	50	53.5	53.1	107	106	55-126	1	
Dichlorodifluoromethane	ug/L	ND	50	50	43.6	41.3	87	83	10-123	5	
Ethylbenzene	ug/L	ND	50	50	47.0	44.8	94	90	70-126	5	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.6	45.9	93	92	68-127	1	
m&p-Xylene	ug/L	ND	100	100	97.0	91.0	97	91	79-123	6	
Methylene Chloride	ug/L	ND	50	50	41.1	39.7	82	79	69-117	4	
n-Butylbenzene	ug/L	ND	50	50	46.2	44.7	92	89	64-136	3	
o-Xylene	ug/L	ND	50	50	47.3	44.9	95	90	57-139	5	
tert-Butylbenzene	ug/L	ND	50	50	45.6	44.9	91	90	71-126	1	
Tetrachloroethene	ug/L	ND	50	50	50.5	47.2	101	94	64-124	7	
Toluene	ug/L	ND	50	50	48.2	45.5	96	91	76-123	6	
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.5	42.3	91	85	69-127	7	
Trichloroethene	ug/L	ND	50	50	47.7	45.5	95	91	73-125	5	
Vinyl chloride	ug/L	ND	50	50	43.7	39.6	87	79	33-127	10	
Xylene (Total)	ug/L	ND	150	150	144	136	96	91	78-123	6	
1,2-Dichloroethane-d4 (S)	%						108	106	81-122		
4-Bromofluorobenzene (S)	%						97	97	79-118		
Toluene-d8 (S)	%						107	106	82-122		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281077
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464028, 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1420843 Matrix: Water
Associated Lab Samples: 70234464028, 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/07/22 09:20	v3
1,1-Dichloroethane	ug/L	<1.0	1.0	11/07/22 09:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/07/22 09:20	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/07/22 09:20	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/07/22 09:20	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/07/22 09:20	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/07/22 09:20	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/07/22 09:20	
Benzene	ug/L	<1.0	1.0	11/07/22 09:20	
Bromodichloromethane	ug/L	<1.0	1.0	11/07/22 09:20	
Bromoform	ug/L	<1.0	1.0	11/07/22 09:20	
Carbon tetrachloride	ug/L	<1.0	1.0	11/07/22 09:20	v3
Chlorobenzene	ug/L	<1.0	1.0	11/07/22 09:20	
Chloroethane	ug/L	<1.0	1.0	11/07/22 09:20	
Chloroform	ug/L	<1.0	1.0	11/07/22 09:20	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/07/22 09:20	
Dibromochloromethane	ug/L	<1.0	1.0	11/07/22 09:20	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/07/22 09:20	
Ethylbenzene	ug/L	<1.0	1.0	11/07/22 09:20	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/07/22 09:20	
m&p-Xylene	ug/L	<2.0	2.0	11/07/22 09:20	
Methylene Chloride	ug/L	<1.0	1.0	11/07/22 09:20	
n-Butylbenzene	ug/L	<1.0	1.0	11/07/22 09:20	
o-Xylene	ug/L	<1.0	1.0	11/07/22 09:20	
tert-Butylbenzene	ug/L	<1.0	1.0	11/07/22 09:20	
Tetrachloroethene	ug/L	<1.0	1.0	11/07/22 09:20	
Toluene	ug/L	<1.0	1.0	11/07/22 09:20	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/07/22 09:20	
Trichloroethene	ug/L	<1.0	1.0	11/07/22 09:20	
Vinyl chloride	ug/L	<1.0	1.0	11/07/22 09:20	v3
Xylene (Total)	ug/L	<3.0	3.0	11/07/22 09:20	
1,2-Dichloroethane-d4 (S)	%	111	81-122	11/07/22 09:20	
4-Bromofluorobenzene (S)	%	91	79-118	11/07/22 09:20	
Toluene-d8 (S)	%	107	82-122	11/07/22 09:20	

LABORATORY CONTROL SAMPLE: 1420844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	38.8	78	72-126	v3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

LABORATORY CONTROL SAMPLE: 1420844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	41.3	83	72-126	
1,1-Dichloroethene	ug/L	50	44.3	89	66-133	
1,2-Dichlorobenzene	ug/L	50	48.6	97	80-117	
1,2-Dichloroethane	ug/L	50	48.8	98	69-134	
1,2-Dichloropropane	ug/L	50	45.8	92	75-125	
1,3-Dichlorobenzene	ug/L	50	46.1	92	82-116	
1,4-Dichlorobenzene	ug/L	50	46.9	94	80-117	
Benzene	ug/L	50	46.8	94	78-117	
Bromodichloromethane	ug/L	50	51.5	103	80-123	
Bromoform	ug/L	50	54.6	109	49-138	
Carbon tetrachloride	ug/L	50	37.3	75	64-135	v3
Chlorobenzene	ug/L	50	48.6	97	79-117	
Chloroethane	ug/L	50	46.5	93	31-156	
Chloroform	ug/L	50	46.9	94	79-123	
cis-1,2-Dichloroethene	ug/L	50	42.9	86	77-125	
Dibromochloromethane	ug/L	50	57.9	116	65-123	
Dichlorodifluoromethane	ug/L	50	18.0	36	13-149	
Ethylbenzene	ug/L	50	44.0	88	79-115	
Isopropylbenzene (Cumene)	ug/L	50	40.0	80	74-118	
m&p-Xylene	ug/L	100	89.1	89	80-118	
Methylene Chloride	ug/L	50	41.9	84	67-123	
n-Butylbenzene	ug/L	50	37.6	75	74-126	
o-Xylene	ug/L	50	45.0	90	80-119	
tert-Butylbenzene	ug/L	50	37.2	74	77-118	L2
Tetrachloroethene	ug/L	50	42.4	85	65-120	
Toluene	ug/L	50	45.7	91	80-114	
trans-1,2-Dichloroethene	ug/L	50	45.2	90	74-123	
Trichloroethene	ug/L	50	43.1	86	79-115	
Vinyl chloride	ug/L	50	27.7	55	49-118	v3
Xylene (Total)	ug/L	150	134	89	80-118	
1,2-Dichloroethane-d4 (S)	%			107	81-122	
4-Bromofluorobenzene (S)	%			99	79-118	
Toluene-d8 (S)	%			108	82-122	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279724
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002, 70234464005

METHOD BLANK: 1414317 Matrix: Water
Associated Lab Samples: 70234464002, 70234464005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	10/28/22 10:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	10/28/22 10:57	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	10/28/22 10:57	

LABORATORY CONTROL SAMPLE: 1414318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.1	100	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		2.9			
Alkalinity,Carbonate (CaCO3)	mg/L	25	22.2	89	85-115	

MATRIX SPIKE SAMPLE: 1414320

Parameter	Units	70234640001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	292	50	339	93	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	292		339			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	<1.0	0	75-125	M1

SAMPLE DUPLICATE: 1414319

Parameter	Units	70234640001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	292	295	1	
Alkalinity,Bicarbonate (CaCO3)	mg/L	292	295	1	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281354
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464006, 70234464007

METHOD BLANK: 1422282 Matrix: Water
Associated Lab Samples: 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/09/22 10:54	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/09/22 10:54	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/09/22 10:54	

LABORATORY CONTROL SAMPLE: 1422283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	23.7	95	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		2.3			
Alkalinity,Carbonate (CaCO3)	mg/L	25	21.4	86	85-115	

MATRIX SPIKE SAMPLE: 1422285

Parameter	Units	70234792006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25.7	50	74.9	98	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	25.7		60.1			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	14.9	30	75-125	M1

SAMPLE DUPLICATE: 1422284

Parameter	Units	70234792006 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25.7	26.6	3	
Alkalinity,Bicarbonate (CaCO3)	mg/L	25.7	26.6	3	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281538
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464015, 70234464017, 70234464019

METHOD BLANK: 1423279 Matrix: Water
Associated Lab Samples: 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/10/22 15:27	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/10/22 15:27	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/10/22 15:27	

LABORATORY CONTROL SAMPLE: 1423280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.8	103	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		1.8			
Alkalinity,Carbonate (CaCO3)	mg/L	25	24.0	96	85-115	

MATRIX SPIKE SAMPLE: 1423282

Parameter	Units	70234795005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	45.7	50	91.0	91	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	45.7		53.0			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	38.1	76	75-125	

SAMPLE DUPLICATE: 1423281

Parameter	Units	70234795005 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	45.7	46.0	1	
Alkalinity,Bicarbonate (CaCO3)	mg/L	45.7	46.0	1	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281748
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1424307 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/11/22 11:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/11/22 11:16	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/11/22 11:16	

LABORATORY CONTROL SAMPLE: 1424308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	26.9	108	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		3.0			
Alkalinity,Carbonate (CaCO3)	mg/L	25	23.9	96	85-115	

MATRIX SPIKE SAMPLE: 1424310

Parameter	Units	70235224001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	41.9	50	91.3	99	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	41.9		51.9			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	39.4	79	75-125	

SAMPLE DUPLICATE: 1424309

Parameter	Units	70235224001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	41.9	42.7	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	41.9	42.7	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 282165 | Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464035

METHOD BLANK: 1426227 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/15/22 16:54	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/15/22 16:54	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/15/22 16:54	

LABORATORY CONTROL SAMPLE: 1426228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	26.2	105	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<1.0			
Alkalinity,Carbonate (CaCO3)	mg/L	25	23.8	95	85-115	

MATRIX SPIKE SAMPLE: 1426230

Parameter	Units	70235377001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	287	50	347	120	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	287		347			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	<1.0	0	75-125	M1

SAMPLE DUPLICATE: 1426229

Parameter	Units	70235377001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	287	284	1	
Alkalinity,Bicarbonate (CaCO3)	mg/L	287	284	1	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280059
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1415607 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	10/31/22 16:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	10/31/22 16:30	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	10/31/22 16:30	

LABORATORY CONTROL SAMPLE: 1415608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	128	102	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	121	97	80-120	

MATRIX SPIKE SAMPLE: 1415610

Parameter	Units	70234896005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4670	625	5480	129	75-125	M1
Alkalinity,Bicarbonate (CaCO3)	mg/L	4670		5480			
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	625	<5.0	0	75-125	M1

SAMPLE DUPLICATE: 1415609

Parameter	Units	70234896005 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4670	4720	1	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4670	4720	1	
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281266
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1421749 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	11/08/22 17:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	11/08/22 17:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	11/08/22 17:29	

LABORATORY CONTROL SAMPLE: 1421750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	122	98	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	118	95	80-120	

MATRIX SPIKE SAMPLE: 1421752

Parameter	Units	70235895001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	5210	625	5420	34	75-125	M1
Alkalinity,Bicarbonate (CaCO3)	mg/L	5210		5420			
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	625	<5.0	0	75-125	M1

SAMPLE DUPLICATE: 1421751

Parameter	Units	70235895001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	5210	5080	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	5210	5080	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 282059
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1425670 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	11/14/22 16:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	11/14/22 16:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	11/14/22 16:43	

LABORATORY CONTROL SAMPLE: 1425671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	126	101	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	119	95	80-120	

MATRIX SPIKE SAMPLE: 1425673

Parameter	Units	70234464029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	59.7	625	678	99	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	59.7		19.4			
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	625	658	105	75-125	

SAMPLE DUPLICATE: 1425672

Parameter	Units	70234464029 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	59.7	59.7	0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	59.7	59.7	0	
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280078
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1415782 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/31/22 19:10	

LABORATORY CONTROL SAMPLE: 1415783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	482	96	85-115	

MATRIX SPIKE SAMPLE: 1415785

Parameter	Units	70234451001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	244	600	724	80	75-125	

MATRIX SPIKE SAMPLE: 1415787

Parameter	Units	70234531001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	238	600	742	84	75-125	

SAMPLE DUPLICATE: 1415784

Parameter	Units	70234451001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	244	248	2	

SAMPLE DUPLICATE: 1415786

Parameter	Units	70234531001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	238	222	7	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280248
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1416497 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/01/22 18:06	

LABORATORY CONTROL SAMPLE: 1416498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	566	113	85-115	

MATRIX SPIKE SAMPLE: 1416500

Parameter	Units	70234596001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	71.0	300	319	83	75-125	

MATRIX SPIKE SAMPLE: 1416502

Parameter	Units	70234792001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	342	300	616	91	75-125	

SAMPLE DUPLICATE: 1416499

Parameter	Units	70234596001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	71.0	75.0	5	

SAMPLE DUPLICATE: 1416501

Parameter	Units	70234792001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	342	376	9	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280458
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464015, 70234464017, 70234464019

METHOD BLANK: 1417654 Matrix: Water
Associated Lab Samples: 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/02/22 20:44	

LABORATORY CONTROL SAMPLE: 1417655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	476	95	85-115	

MATRIX SPIKE SAMPLE: 1417657

Parameter	Units	70234795010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	150	300	427	92	75-125	

MATRIX SPIKE SAMPLE: 1417659

Parameter	Units	70234464015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	128	300	387	86	75-125	

SAMPLE DUPLICATE: 1417656

Parameter	Units	70234795010 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	150	161	7	D6

SAMPLE DUPLICATE: 1417658

Parameter	Units	70234464015 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	128	124	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280682
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012

METHOD BLANK: 1418977 Matrix: Water
Associated Lab Samples: 70234464012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/03/22 18:42	

LABORATORY CONTROL SAMPLE: 1418978

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

MATRIX SPIKE SAMPLE: 1418980

Parameter	Units	70234828001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	312	600	838	88	75-125	

MATRIX SPIKE SAMPLE: 1418982

Parameter	Units	70234795012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	<10.0	300	255	84	75-125	

SAMPLE DUPLICATE: 1418979

Parameter	Units	70234828001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	312	334	7	D6

SAMPLE DUPLICATE: 1418981

Parameter	Units	70234795012 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	<10.0	2.0J		

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REPORT OF LABORATORY ANALYSIS

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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280839
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1419603 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/04/22 16:52	

LABORATORY CONTROL SAMPLE: 1419604

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

MATRIX SPIKE SAMPLE: 1419606

Parameter	Units	70235046001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	238	600	692	76	75-125	

MATRIX SPIKE SAMPLE: 1419608

Parameter	Units	70235053001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	73.0	300	329	85	75-125	

SAMPLE DUPLICATE: 1419605

Parameter	Units	70235046001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	238	238	0	

SAMPLE DUPLICATE: 1419607

Parameter	Units	70235053001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	73.0	77.0	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281056 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1420728 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/07/22 21:00	

LABORATORY CONTROL SAMPLE: 1420729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	530	106	85-115	

MATRIX SPIKE SAMPLE: 1420731

Parameter	Units	70235251004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	514	600	966	75	75-125	

MATRIX SPIKE SAMPLE: 1420733

Parameter	Units	70235390003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	102	600	596	82	75-125	

SAMPLE DUPLICATE: 1420730

Parameter	Units	70235251004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	514	478	7	D6

SAMPLE DUPLICATE: 1420732

Parameter	Units	70235390003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	102	110	8	D6

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REPORT OF LABORATORY ANALYSIS

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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279357
QC Batch Method: SM22 3500-Cr B
Analysis Method: SM22 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002, 70234464003

METHOD BLANK: 1412220 Matrix: Water
Associated Lab Samples: 70234464002, 70234464003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/26/22 10:20	

LABORATORY CONTROL SAMPLE: 1412221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.19	96	85-115	

MATRIX SPIKE SAMPLE: 1412222

Parameter	Units	70234464002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.18	90	75-125	

SAMPLE DUPLICATE: 1412223

Parameter	Units	70234464003 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279496 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007, 70234464008, 70234464009, 70234464010

METHOD BLANK: 1413249 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007, 70234464008, 70234464009, 70234464010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/26/22 22:21	

LABORATORY CONTROL SAMPLE: 1413250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.19	93	85-115	

MATRIX SPIKE SAMPLE: 1413251

Parameter	Units	70234464005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.19	92	75-125	

SAMPLE DUPLICATE: 1413252

Parameter	Units	70234464005 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279882 Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464015, 70234464016, 70234464017, 70234464018, 70234464019, 70234464020

METHOD BLANK: 1415006 Matrix: Water
Associated Lab Samples: 70234464015, 70234464016, 70234464017, 70234464018, 70234464019, 70234464020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/28/22 12:56	

LABORATORY CONTROL SAMPLE: 1415007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.19	96	85-115	

MATRIX SPIKE SAMPLE: 1415008

Parameter	Units	70234464019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	98	75-125	H1

SAMPLE DUPLICATE: 1415009

Parameter	Units	70234464019 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279892
QC Batch Method: SM22 3500-Cr B
Analysis Method: SM22 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464013

METHOD BLANK: 1415027 Matrix: Water
Associated Lab Samples: 70234464012, 70234464013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/29/22 10:47	

LABORATORY CONTROL SAMPLE: 1415028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	100	85-115	

MATRIX SPIKE SAMPLE: 1415029

Parameter	Units	70234464012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.16	78	75-125	

SAMPLE DUPLICATE: 1415030

Parameter	Units	70234464012 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280275 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464023, 70234464024, 70234464025, 70234464026, 70234464027

METHOD BLANK: 1416955 Matrix: Water
Associated Lab Samples: 70234464022, 70234464023, 70234464024, 70234464025, 70234464026, 70234464027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	11/02/22 02:26	

LABORATORY CONTROL SAMPLE: 1416956

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: 1416957

Parameter	Units	70234464022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.18	92	75-125	H1

SAMPLE DUPLICATE: 1416958

Parameter	Units	70234464022 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280544 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464030, 70234464031, 70234464032, 70234464033, 70234464034, 70234464035, 70234464036

METHOD BLANK: 1418374 Matrix: Water
Associated Lab Samples: 70234464029, 70234464030, 70234464031, 70234464032, 70234464033, 70234464034, 70234464035, 70234464036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	11/03/22 09:54	

LABORATORY CONTROL SAMPLE: 1418375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	98	85-115	

MATRIX SPIKE SAMPLE: 1418376

Parameter	Units	70235432004 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: 1418377

Parameter	Units	70235432004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280019
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70234464002

METHOD BLANK: 1415424 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/01/22 14:38	

LABORATORY CONTROL SAMPLE: 1415425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE SAMPLE: 1415426

Parameter	Units	70234654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	26.5	10	36.2	97	90-110	

MATRIX SPIKE SAMPLE: 1415428

Parameter	Units	70234654002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	33.7	10	44.0	102	90-110	

SAMPLE DUPLICATE: 1415427

Parameter	Units	70234654001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	26.5	26.6	0	

SAMPLE DUPLICATE: 1415429

Parameter	Units	70234654002 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	33.7	34.0	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280155 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1416123 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.23J	5.0	11/11/22 14:45	

LABORATORY CONTROL SAMPLE: 1416124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.6	106	90-110	

MATRIX SPIKE SAMPLE: 1416125

Parameter	Units	70234863001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	29.6	10	42.5	129	90-110	M1

MATRIX SPIKE SAMPLE: 1416127

Parameter	Units	70234863002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	23.0	10	35.9	129	90-110	M1

SAMPLE DUPLICATE: 1416126

Parameter	Units	70234863001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	29.6	30.0	1	

SAMPLE DUPLICATE: 1416128

Parameter	Units	70234863002 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	23.0	23.0	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 282655 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019, 70234464022, 70234464024, 70234464026

METHOD BLANK: 1428551 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019, 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.22J	5.0	11/18/22 20:49	

LABORATORY CONTROL SAMPLE: 1428552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE SAMPLE: 1428553

Parameter	Units	70235390001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	<5.0	10	11.7	115	90-110	M1

MATRIX SPIKE SAMPLE: 1428555

Parameter	Units	70235390003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	8.7	10	20.3	117	90-110	M1

SAMPLE DUPLICATE: 1428554

Parameter	Units	70235390001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	<5.0	0.35J		

SAMPLE DUPLICATE: 1428556

Parameter	Units	70235390003 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	8.7	8.7	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 283012 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1430444 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/21/22 18:14	

LABORATORY CONTROL SAMPLE: 1430445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.2	102	90-110	

MATRIX SPIKE SAMPLE: 1430446

Parameter	Units	70235432004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	<5.0	10	14.4	99	90-110	

MATRIX SPIKE SAMPLE: 1430448

Parameter	Units	70236467001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	74.5	50	127	105	90-110	

SAMPLE DUPLICATE: 1430447

Parameter	Units	70235432004 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	<5.0	4.5J		

SAMPLE DUPLICATE: 1430449

Parameter	Units	70236467001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	74.5	75.0	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 282330
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002, 70234464005, 70234464006, 70234464007, 70234464012, 70234464015, 70234464017, 70234464019, 70234464022, 70234464026, 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1427280 Matrix: Water
Associated Lab Samples: 70234464002, 70234464005, 70234464006, 70234464007, 70234464012, 70234464015, 70234464017, 70234464019, 70234464022, 70234464026, 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	11/16/22 16:20	

LABORATORY CONTROL SAMPLE: 1427281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.9	97	90-110	

MATRIX SPIKE SAMPLE: 1427282

Parameter	Units	70234464015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.8	93	90-110	

MATRIX SPIKE SAMPLE: 1427284

Parameter	Units	70235390004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.9	96	90-110	

SAMPLE DUPLICATE: 1427283

Parameter	Units	70234464015 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

SAMPLE DUPLICATE: 1427285

Parameter	Units	70235390004 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 284001
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464024

METHOD BLANK: 1435092 Matrix: Water
Associated Lab Samples: 70234464024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	11/30/22 13:12	

LABORATORY CONTROL SAMPLE: 1435093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.9	98	90-110	

MATRIX SPIKE SAMPLE: 1435094

Parameter	Units	70237597002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	3.6	4	7.7	103	90-110	

MATRIX SPIKE SAMPLE: 1435096

Parameter	Units	70237606002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.1	4	5.2	104	90-110	

SAMPLE DUPLICATE: 1435095

Parameter	Units	70237597002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	3.6	3.6	0	

SAMPLE DUPLICATE: 1435097

Parameter	Units	70237606002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.1	1.1	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279494
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1413192 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/26/22 23:18	

LABORATORY CONTROL SAMPLE: 1413193

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: 1413194

Parameter	Units	70234583007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	106	90-110	

MATRIX SPIKE SAMPLE: 1413196

Parameter	Units	70234469009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.30	0.5	0.85	109	90-110	

SAMPLE DUPLICATE: 1413195

Parameter	Units	70234583007 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1413197

Parameter	Units	70234469009 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.30	0.30	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279497
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1413280 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/27/22 01:00	

LABORATORY CONTROL SAMPLE: 1413281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 1413282

Parameter	Units	70234464005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.45	91	90-110	

MATRIX SPIKE SAMPLE: 1413284

Parameter	Units	70234559001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.76	0.5	1.4	119	90-110	M1

SAMPLE DUPLICATE: 1413283

Parameter	Units	70234464005 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1413285

Parameter	Units	70234559001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.76	0.75	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279876
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464015, 70234464017, 70234464019

METHOD BLANK: 1414939 Matrix: Water
Associated Lab Samples: 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/28/22 22:42	

LABORATORY CONTROL SAMPLE: 1414940

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

MATRIX SPIKE SAMPLE: 1414941

Parameter	Units	70234896004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.53	104	90-110	

SAMPLE DUPLICATE: 1414942

Parameter	Units	70234896004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279929
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012

METHOD BLANK: 1415157 Matrix: Water
Associated Lab Samples: 70234464012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/29/22 19:28	

LABORATORY CONTROL SAMPLE: 1415158

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: 1415161

Parameter	Units	70234908002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	97	90-110	

MATRIX SPIKE SAMPLE: 1415163

Parameter	Units	70234945002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	97	90-110	

SAMPLE DUPLICATE: 1415162

Parameter	Units	70234908002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1415164

Parameter	Units	70234945002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280479
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1418015 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	11/02/22 23:29	

LABORATORY CONTROL SAMPLE: 1418016

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

MATRIX SPIKE SAMPLE: 1418019

Parameter	Units	70235163001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	96	90-110	

MATRIX SPIKE SAMPLE: 1418050

Parameter	Units	70235401004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.080	0.5	0.58	100	90-110	

SAMPLE DUPLICATE: 1418020

Parameter	Units	70235163001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1418051

Parameter	Units	70235401004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.080	0.082	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280481 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1418036 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	11/03/22 00:43	

LABORATORY CONTROL SAMPLE: 1418037

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

MATRIX SPIKE SAMPLE: 1418038

Parameter	Units	70235159002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.36	71	90-110	

MATRIX SPIKE SAMPLE: 1418040

Parameter	Units	70235229001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	97	90-110	

SAMPLE DUPLICATE: 1418039

Parameter	Units	70235159002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1418041

Parameter	Units	70235229001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280122 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002, 70234464005, 70234464006, 70234464007

METHOD BLANK: 1416022 — Matrix: Water
Associated Lab Samples: 70234464002, 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	11/01/22 15:54	

LABORATORY CONTROL SAMPLE: 1416023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.95	95	90-110	

MATRIX SPIKE SAMPLE: 1416024

Parameter	Units	70234960001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.46	92	90-110	

MATRIX SPIKE SAMPLE: 1416026

Parameter	Units	70234696001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.45	89	90-110	M1

SAMPLE DUPLICATE: 1416025

Parameter	Units	70234960001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1416027

Parameter	Units	70234696001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281362
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1422308 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	11/09/22 15:55	

LABORATORY CONTROL SAMPLE: 1422309

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

MATRIX SPIKE SAMPLE: 1422310

Parameter	Units	70236055001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.5	0.5	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1422312

Parameter	Units	70235423003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.3	0.5	2.8	98	90-110	

SAMPLE DUPLICATE: 1422311

Parameter	Units	70236055001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.5	1.5	4	

SAMPLE DUPLICATE: 1422313

Parameter	Units	70235423003 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.3	2.3	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281756 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026, 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1424330 — Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026, 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	11/11/22 19:11	

LABORATORY CONTROL SAMPLE: 1424331

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

MATRIX SPIKE SAMPLE: 1424332

Parameter	Units	70236447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.0	2.5	7.3	136	90-110	M1

MATRIX SPIKE SAMPLE: 1424334

Parameter	Units	70234464033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.49	97	90-110	

SAMPLE DUPLICATE: 1424333

Parameter	Units	70236447001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.0	4.2	5	

SAMPLE DUPLICATE: 1424335

Parameter	Units	70234464033 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281012
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1420507 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/07/22 19:19	

LABORATORY CONTROL SAMPLE: 1420508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	74.8	100	85-115	

MATRIX SPIKE SAMPLE: 1420509

Parameter	Units	70234519002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	102	95	75-125	

SAMPLE DUPLICATE: 1420510

Parameter	Units	70234519002 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281014 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007, 70234464012, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1420513 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007, 70234464012, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/07/22 19:44	

LABORATORY CONTROL SAMPLE: 1420514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	74.9	100	85-115	

MATRIX SPIKE SAMPLE: 1420515

Parameter	Units	70235645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	53.0	100	210	157	75-125	M1

MATRIX SPIKE SAMPLE: 1420517

Parameter	Units	70235646001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	52.4	100	122	69	75-125	M1

MATRIX SPIKE SAMPLE: 1420519

Parameter	Units	70235647001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	14.6	100	106	91	75-125	

SAMPLE DUPLICATE: 1420516

Parameter	Units	70235645001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	53.0	66.7	23	D6

SAMPLE DUPLICATE: 1420518

Parameter	Units	70235646001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	52.4	54.0	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

SAMPLE DUPLICATE: 1420520

Parameter	Units	70235647001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	14.6	28.3	64	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281167 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1421212 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/08/22 17:36	

LABORATORY CONTROL SAMPLE: 1421213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	74.7	100	85-115	

MATRIX SPIKE SAMPLE: 1421214

Parameter	Units	70235701001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	38.8	100	119	81	75-125	

SAMPLE DUPLICATE: 1421215

Parameter	Units	70235701001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	38.8	39.7	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281759 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1424341 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/11/22 16:51	

LABORATORY CONTROL SAMPLE: 1424342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	75.7	101	85-115	

MATRIX SPIKE SAMPLE: 1424343

Parameter	Units	70235725001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	11.7	100	141	130	75-125	M1

SAMPLE DUPLICATE: 1424344

Parameter	Units	70235725001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	11.7	11.7	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279519
QC Batch Method: SM22 4500-Cl-E
Analysis Method: SM22 4500-Cl-E
Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1413418 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	10/27/22 10:25	

LABORATORY CONTROL SAMPLE: 1413419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	

MATRIX SPIKE SAMPLE: 1413420

Parameter	Units	70234418003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	244	125	357	91	80-120	

SAMPLE DUPLICATE: 1413421

Parameter	Units	70234418003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	244	237	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279934 | Analysis Method: SM22 4500-Cl-E
QC Batch Method: SM22 4500-Cl-E | Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1415176 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	10/30/22 15:00	

LABORATORY CONTROL SAMPLE: 1415177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	

MATRIX SPIKE SAMPLE: 1415178

Parameter	Units	70234774001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	245	125	356	88	80-120	

SAMPLE DUPLICATE: 1415179

Parameter	Units	70234774001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	245	247	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280317 | Analysis Method: SM22 4500-Cl-E
QC Batch Method: SM22 4500-Cl-E | Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

METHOD BLANK: 1417061 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015, 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/02/22 10:27	

LABORATORY CONTROL SAMPLE: 1417062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	

MATRIX SPIKE SAMPLE: 1417063

Parameter	Units	70234957001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	273	125	367	76	80-120	M1

SAMPLE DUPLICATE: 1417064

Parameter	Units	70234957001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	273	267	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280592 | Analysis Method: SM22 4500-Cl-E
QC Batch Method: SM22 4500-Cl-E | Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1418625 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/03/22 14:15	

LABORATORY CONTROL SAMPLE: 1418626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	

MATRIX SPIKE SAMPLE: 1418627

Parameter	Units	70235404003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	144	125	262	94	80-120	

SAMPLE DUPLICATE: 1418628

Parameter	Units	70235404003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	144	143	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280984 | Analysis Method: SM22 4500-Cl-E
QC Batch Method: SM22 4500-Cl-E | Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

METHOD BLANK: 1420369 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464033, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/07/22 14:31	

LABORATORY CONTROL SAMPLE: 1420370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	

MATRIX SPIKE SAMPLE: 1420371

Parameter	Units	70235602001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	227	125	338	89	80-120	

SAMPLE DUPLICATE: 1420372

Parameter	Units	70235602001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	227	219	4	

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279614
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464002

METHOD BLANK: 1413778 Matrix: Water
Associated Lab Samples: 70234464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/27/22 15:04	

LABORATORY CONTROL SAMPLE: 1413779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1413780

Parameter	Units	70234608002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.93	89	75-125	

SAMPLE DUPLICATE: 1413781

Parameter	Units	70234608002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 279973
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464005, 70234464006, 70234464007

METHOD BLANK: 1415299 Matrix: Water
Associated Lab Samples: 70234464005, 70234464006, 70234464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/31/22 13:36	

LABORATORY CONTROL SAMPLE: 1415300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.94	94	90-110	

MATRIX SPIKE SAMPLE: 1415301

Parameter	Units	70234646002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.89	86	75-125	

SAMPLE DUPLICATE: 1415302

Parameter	Units	70234646002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280104
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464012, 70234464015

METHOD BLANK: 1415966 Matrix: Water
Associated Lab Samples: 70234464012, 70234464015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/01/22 11:08	

LABORATORY CONTROL SAMPLE: 1415967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1415968

Parameter	Units	70234839002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.96	92	75-125	

SAMPLE DUPLICATE: 1415969

Parameter	Units	70234839002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280105
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464017, 70234464019

METHOD BLANK: 1415970 Matrix: Water
Associated Lab Samples: 70234464017, 70234464019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/01/22 11:41	

LABORATORY CONTROL SAMPLE: 1415971

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

MATRIX SPIKE SAMPLE: 1415972

Parameter	Units	70234888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	29.8	10	38.0	83	75-125	

SAMPLE DUPLICATE: 1415973

Parameter	Units	70234888001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	29.8	29.0	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 280519
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464022, 70234464024, 70234464026

METHOD BLANK: 1418188 Matrix: Water
Associated Lab Samples: 70234464022, 70234464024, 70234464026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/03/22 12:22	

LABORATORY CONTROL SAMPLE: 1418189

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

MATRIX SPIKE SAMPLE: 1418190

Parameter	Units	70235277001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.91	88	75-125	

SAMPLE DUPLICATE: 1418191

Parameter	Units	70235277001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281776 | Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H | Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464029, 70234464031, 70234464035

METHOD BLANK: 1424387 Matrix: Water
Associated Lab Samples: 70234464029, 70234464031, 70234464035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/11/22 14:18	

LABORATORY CONTROL SAMPLE: 1424388

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

MATRIX SPIKE SAMPLE: 1424389

Parameter	Units	70235659001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	27.1	10	37.4	102	75-125	

SAMPLE DUPLICATE: 1424390

Parameter	Units	70235659001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	27.1	30.1	11	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

QC Batch: 281940
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70234464033

METHOD BLANK: 1425193 Matrix: Water
Associated Lab Samples: 70234464033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/13/22 12:12	

LABORATORY CONTROL SAMPLE: 1425194

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

MATRIX SPIKE SAMPLE: 1425195

Parameter	Units	70236586002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	4.8	10	15.3	105	75-125	

SAMPLE DUPLICATE: 1425196

Parameter	Units	70236586002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	4.8	4.7	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H2	Extraction or preparation conducted outside 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.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464002	**OBS-1_10/25/2022**	EPA 200.7	279948	EPA 200.7	280042
70234464005	**BLIND DUPLICATE**	EPA 200.7	280515	EPA 200.7	280658
70234464006	**MW-09C_10/26/22**	EPA 200.7	280515	EPA 200.7	280658
70234464007	**MW-09B_10/26/22**	EPA 200.7	280515	EPA 200.7	280658
70234464012	**LF-2_10/28/22**	EPA 200.7	280944	EPA 200.7	281035
70234464015	**MW-08A_10/27/2022**	EPA 200.7	280944	EPA 200.7	281035
70234464017	**MW-08B_10/27/2022**	EPA 200.7	280944	EPA 200.7	281035
70234464019	**MW-05B_10/27/2022**	EPA 200.7	280944	EPA 200.7	281035
70234464022	**MW-06F_10/31/22**	EPA 200.7	281137	EPA 200.7	281213
70234464024	**MW-06C_10/31/22**	EPA 200.7	281137	EPA 200.7	281213
70234464026	**MW-06A_10/31/22**	EPA 200.7	281137	EPA 200.7	281213
70234464029	**LF-1_11/1/22**	EPA 200.7	281345	EPA 200.7	281414
70234464031	**MW-06E_11/1/22**	EPA 200.7	281345	EPA 200.7	281414
70234464033	**MW-06B_11/1/22**	EPA 200.7	281345	EPA 200.7	281414
70234464035	**FIELD BLANK_11/1/22**	EPA 200.7	281345	EPA 200.7	281414
70234464003	**OBS-1_10/25/2022 DISS**	EPA 200.7	279564		
70234464008	**BLIND DUPLICATE DISS**	EPA 200.7	279786		
70234464009	**MW-09C_10/26/22 DISS**	EPA 200.7	279786		
70234464010	**MW-09B_10/26/22 DISS**	EPA 200.7	279786		
70234464013	**LF-2_10/28/22 DISS**	EPA 200.7	280005		
70234464016	**MW-08A_10/27/2022 DISS**	EPA 200.7	280005		
70234464018	**MW-08B_10/27/2022 DISS**	EPA 200.7	280005		
70234464020	**MW-05B_10/27/2022 DISS**	EPA 200.7	280005		
70234464023	**MW-06F_10/31/22 DISS**	EPA 200.7	280410		
70234464025	**MW-06C_10/31/22 DISS**	EPA 200.7	280410		
70234464027	**MW-06A_10/31/22 DISS**	EPA 200.7	280410		
70234464030	**LF-1_11/1/22 DISS**	EPA 200.7	280813		
70234464032	**MW-06E_11/1/22 DISS**	EPA 200.7	280813		
70234464034	**MW-06B_11/1/22 DISS**	EPA 200.7	280813		
70234464036	**FIELD BLANK_11/1/22 DISS**	EPA 200.7	280813		
70234464002	**OBS-1_10/25/2022**	SM22 2340B	281030		
70234464005	**BLIND DUPLICATE**	SM22 2340B	281030		
70234464006	**MW-09C_10/26/22**	SM22 2340B	281030		
70234464007	**MW-09B_10/26/22**	SM22 2340B	281030		
70234464012	**LF-2_10/28/22**	SM22 2340B	281183		
70234464015	**MW-08A_10/27/2022**	SM22 2340B	281183		
70234464017	**MW-08B_10/27/2022**	SM22 2340B	281183		
70234464019	**MW-05B_10/27/2022**	SM22 2340B	281183		
70234464022	**MW-06F_10/31/22**	SM22 2340B	281564		
70234464024	**MW-06C_10/31/22**	SM22 2340B	281564		
70234464026	**MW-06A_10/31/22**	SM22 2340B	281564		
70234464029	**LF-1_11/1/22**	SM22 2340B	281564		
70234464031	**MW-06E_11/1/22**	SM22 2340B	281564		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464033	MW-06B_11/1/22	SM22 2340B	281564		
70234464035	FIELD BLANK_11/1/22	SM22 2340B	281564		
70234464002	OBS-1_10/25/2022	EPA 245.1	279570	EPA 245.1	279648
70234464005	BLIND DUPLICATE	EPA 245.1	279940	EPA 245.1	280032
70234464006	MW-09C_10/26/22	EPA 245.1	279940	EPA 245.1	280032
70234464007	MW-09B_10/26/22	EPA 245.1	279940	EPA 245.1	280032
70234464012	LF-2_10/28/22	EPA 245.1	280163	EPA 245.1	280175
70234464015	MW-08A_10/27/2022	EPA 245.1	280163	EPA 245.1	280175
70234464017	MW-08B_10/27/2022	EPA 245.1	280163	EPA 245.1	280175
70234464019	MW-05B_10/27/2022	EPA 245.1	280163	EPA 245.1	280175
70234464022	MW-06F_10/31/22	EPA 245.1	280508	EPA 245.1	280567
70234464024	MW-06C_10/31/22	EPA 245.1	280508	EPA 245.1	280567
70234464026	MW-06A_10/31/22	EPA 245.1	280508	EPA 245.1	280567
70234464029	LF-1_11/1/22	EPA 245.1	281333	EPA 245.1	281419
70234464031	MW-06E_11/1/22	EPA 245.1	281333	EPA 245.1	281419
70234464033	MW-06B_11/1/22	EPA 245.1	281333	EPA 245.1	281419
70234464035	FIELD BLANK_11/1/22	EPA 245.1	281333	EPA 245.1	281419
70234464003	OBS-1_10/25/2022 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464008	BLIND DUPLICATE DISS	EPA 245.1	281332	EPA 245.1	281387
70234464009	MW-09C_10/26/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464010	MW-09B_10/26/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464013	LF-2_10/28/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464016	MW-08A_10/27/2022 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464018	MW-08B_10/27/2022 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464020	MW-05B_10/27/2022 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464023	MW-06F_10/31/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464025	MW-06C_10/31/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464027	MW-06A_10/31/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464030	LF-1_11/1/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464032	MW-06E_11/1/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464034	MW-06B_11/1/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464036	FIELD BLANK_11/1/22 DISS	EPA 245.1	281332	EPA 245.1	281387
70234464001	TRIP BLANK_10/25/2022	EPA 8260C/5030C	279850		
70234464002	OBS-1_10/25/2022	EPA 8260C/5030C	279850		
70234464004	TRIP BLANK_10/26/2022	EPA 8260C/5030C	279850		
70234464005	BLIND DUPLICATE	EPA 8260C/5030C	279850		
70234464006	MW-09C_10/26/22	EPA 8260C/5030C	279850		
70234464007	MW-09B_10/26/22	EPA 8260C/5030C	279850		
70234464011	TRIP BLANK_10/28/22	EPA 8260C/5030C	280391		
70234464012	LF-2_10/28/22	EPA 8260C/5030C	280391		
70234464014	TRIP BLANK_10/27/2022	EPA 8260C/5030C	280391		
70234464015	MW-08A_10/27/2022	EPA 8260C/5030C	280391		
70234464017	MW-08B_10/27/2022	EPA 8260C/5030C	280391		
70234464019	MW-05B_10/27/2022	EPA 8260C/5030C	280391		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464021	TRIP BLANK_10/31/2022	EPA 8260C/5030C	280925		
70234464022	MW-06F_10/31/22	EPA 8260C/5030C	280925		
70234464024	MW-06C_10/31/22	EPA 8260C/5030C	280925		
70234464026	MW-06A_10/31/22	EPA 8260C/5030C	280925		
70234464028	TRIP BLANK_11/1/2022	EPA 8260C/5030C	281077		
70234464029	LF-1_11/1/22	EPA 8260C/5030C	281077		
70234464031	MW-06E_11/1/22	EPA 8260C/5030C	281077		
70234464033	MW-06B_11/1/22	EPA 8260C/5030C	281077		
70234464035	FIELD BLANK_11/1/22	EPA 8260C/5030C	281077		
70234464002	OBS-1_10/25/2022	SM22 2320B	279724		
70234464005	BLIND DUPLICATE	SM22 2320B	279724		
70234464006	MW-09C_10/26/22	SM22 2320B	281354		
70234464007	MW-09B_10/26/22	SM22 2320B	281354		
70234464015	MW-08A_10/27/2022	SM22 2320B	281538		
70234464017	MW-08B_10/27/2022	SM22 2320B	281538		
70234464019	MW-05B_10/27/2022	SM22 2320B	281538		
70234464022	MW-06F_10/31/22	SM22 2320B	281748		
70234464024	MW-06C_10/31/22	SM22 2320B	281748		
70234464026	MW-06A_10/31/22	SM22 2320B	281748		
70234464029	LF-1_11/1/22	SM22 2320B	282165		
70234464031	MW-06E_11/1/22	SM22 2320B	282165		
70234464035	FIELD BLANK_11/1/22	SM22 2320B	282165		
70234464012	LF-2_10/28/22	SM22 2320B	280059		
70234464015	MW-08A_10/27/2022	SM22 2320B	280059		
70234464017	MW-08B_10/27/2022	SM22 2320B	280059		
70234464019	MW-05B_10/27/2022	SM22 2320B	280059		
70234464022	MW-06F_10/31/22	SM22 2320B	281266		
70234464024	MW-06C_10/31/22	SM22 2320B	281266		
70234464026	MW-06A_10/31/22	SM22 2320B	281266		
70234464029	LF-1_11/1/22	SM22 2320B	282059		
70234464031	MW-06E_11/1/22	SM22 2320B	282059		
70234464033	MW-06B_11/1/22	SM22 2320B	282059		
70234464035	FIELD BLANK_11/1/22	SM22 2320B	282059		
70234464002	OBS-1_10/25/2022	SM22 2540C	280078		
70234464005	BLIND DUPLICATE	SM22 2540C	280248		
70234464006	MW-09C_10/26/22	SM22 2540C	280248		
70234464007	MW-09B_10/26/22	SM22 2540C	280248		
70234464012	LF-2_10/28/22	SM22 2540C	280682		
70234464015	MW-08A_10/27/2022	SM22 2540C	280458		
70234464017	MW-08B_10/27/2022	SM22 2540C	280458		
70234464019	MW-05B_10/27/2022	SM22 2540C	280458		
70234464022	MW-06F_10/31/22	SM22 2540C	280839		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464024	**MW-06C_10/31/22**	SM22 2540C	280839		
70234464026	**MW-06A_10/31/22**	SM22 2540C	280839		
70234464029	**LF-1_11/1/22**	SM22 2540C	281056		
70234464031	**MW-06E_11/1/22**	SM22 2540C	281056		
70234464033	**MW-06B_11/1/22**	SM22 2540C	281056		
70234464035	**FIELD BLANK_11/1/22**	SM22 2540C	281056		
70234464002	**OBS-1_10/25/2022**	SM22 3500-Cr B	279357		
70234464003	**OBS-1_10/25/2022 DISS**	SM22 3500-Cr B	279357		
70234464005	**BLIND DUPLICATE**	SM22 3500-Cr B	279496		
70234464006	**MW-09C_10/26/22**	SM22 3500-Cr B	279496		
70234464007	**MW-09B_10/26/22**	SM22 3500-Cr B	279496		
70234464008	**BLIND DUPLICATE DISS**	SM22 3500-Cr B	279496		
70234464009	**MW-09C_10/26/22 DISS**	SM22 3500-Cr B	279496		
70234464010	**MW-09B_10/26/22 DISS**	SM22 3500-Cr B	279496		
70234464012	**LF-2_10/28/22**	SM22 3500-Cr B	279892		
70234464013	**LF-2_10/28/22 DISS**	SM22 3500-Cr B	279892		
70234464015	**MW-08A_10/27/2022**	SM22 3500-Cr B	279882		
70234464016	**MW-08A_10/27/2022 DISS**	SM22 3500-Cr B	279882		
70234464017	**MW-08B_10/27/2022**	SM22 3500-Cr B	279882		
70234464018	**MW-08B_10/27/2022 DISS**	SM22 3500-Cr B	279882		
70234464019	**MW-05B_10/27/2022**	SM22 3500-Cr B	279882		
70234464020	**MW-05B_10/27/2022 DISS**	SM22 3500-Cr B	279882		
70234464022	**MW-06F_10/31/22**	SM22 3500-Cr B	280275		
70234464023	**MW-06F_10/31/22 DISS**	SM22 3500-Cr B	280275		
70234464024	**MW-06C_10/31/22**	SM22 3500-Cr B	280275		
70234464025	**MW-06C_10/31/22 DISS**	SM22 3500-Cr B	280275		
70234464026	**MW-06A_10/31/22**	SM22 3500-Cr B	280275		
70234464027	**MW-06A_10/31/22 DISS**	SM22 3500-Cr B	280275		
70234464029	**LF-1_11/1/22**	SM22 3500-Cr B	280544		
70234464030	**LF-1_11/1/22 DISS**	SM22 3500-Cr B	280544		
70234464031	**MW-06E_11/1/22**	SM22 3500-Cr B	280544		
70234464032	**MW-06E_11/1/22 DISS**	SM22 3500-Cr B	280544		
70234464033	**MW-06B_11/1/22**	SM22 3500-Cr B	280544		
70234464034	**MW-06B_11/1/22 DISS**	SM22 3500-Cr B	280544		
70234464035	**FIELD BLANK_11/1/22**	SM22 3500-Cr B	280544		
70234464036	**FIELD BLANK_11/1/22 DISS**	SM22 3500-Cr B	280544		
70234464002	**OBS-1_10/25/2022**	EPA 300.0	280019		
70234464005	**BLIND DUPLICATE**	EPA 300.0	280155		
70234464006	**MW-09C_10/26/22**	EPA 300.0	280155		
70234464007	**MW-09B_10/26/22**	EPA 300.0	280155		
70234464012	**LF-2_10/28/22**	EPA 300.0	282655		
70234464015	**MW-08A_10/27/2022**	EPA 300.0	282655		
70234464017	**MW-08B_10/27/2022**	EPA 300.0	282655		
70234464019	**MW-05B_10/27/2022**	EPA 300.0	282655		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464022	MW-06F_10/31/22	EPA 300.0	282655		
70234464024	MW-06C_10/31/22	EPA 300.0	282655		
70234464026	MW-06A_10/31/22	EPA 300.0	282655		
70234464029	LF-1_11/1/22	EPA 300.0	283012		
70234464031	MW-06E_11/1/22	EPA 300.0	283012		
70234464033	MW-06B_11/1/22	EPA 300.0	283012		
70234464035	FIELD BLANK_11/1/22	EPA 300.0	283012		
70234464002	OBS-1_10/25/2022	EPA 351.2	282330	EPA 351.2	282387
70234464005	BLIND DUPLICATE	EPA 351.2	282330	EPA 351.2	282387
70234464006	MW-09C_10/26/22	EPA 351.2	282330	EPA 351.2	282387
70234464007	MW-09B_10/26/22	EPA 351.2	282330	EPA 351.2	282387
70234464012	LF-2_10/28/22	EPA 351.2	282330	EPA 351.2	282387
70234464015	MW-08A_10/27/2022	EPA 351.2	282330	EPA 351.2	282387
70234464017	MW-08B_10/27/2022	EPA 351.2	282330	EPA 351.2	282387
70234464019	MW-05B_10/27/2022	EPA 351.2	282330	EPA 351.2	282387
70234464022	MW-06F_10/31/22	EPA 351.2	282330	EPA 351.2	282387
70234464024	MW-06C_10/31/22	EPA 351.2	284001	EPA 351.2	284003
70234464026	MW-06A_10/31/22	EPA 351.2	282330	EPA 351.2	282387
70234464029	LF-1_11/1/22	EPA 351.2	282330	EPA 351.2	282387
70234464031	MW-06E_11/1/22	EPA 351.2	282330	EPA 351.2	282387
70234464033	MW-06B_11/1/22	EPA 351.2	282330	EPA 351.2	282387
70234464035	FIELD BLANK_11/1/22	EPA 351.2	282330	EPA 351.2	282387
70234464002	OBS-1_10/25/2022	EPA 353.2	280122		
70234464005	BLIND DUPLICATE	EPA 353.2	280122		
70234464006	MW-09C_10/26/22	EPA 353.2	280122		
70234464007	MW-09B_10/26/22	EPA 353.2	280122		
70234464012	LF-2_10/28/22	EPA 353.2	281362		
70234464015	MW-08A_10/27/2022	EPA 353.2	281362		
70234464017	MW-08B_10/27/2022	EPA 353.2	281362		
70234464019	MW-05B_10/27/2022	EPA 353.2	281362		
70234464022	MW-06F_10/31/22	EPA 353.2	281756		
70234464024	MW-06C_10/31/22	EPA 353.2	281756		
70234464026	MW-06A_10/31/22	EPA 353.2	281756		
70234464029	LF-1_11/1/22	EPA 353.2	281756		
70234464031	MW-06E_11/1/22	EPA 353.2	281756		
70234464033	MW-06B_11/1/22	EPA 353.2	281756		
70234464035	FIELD BLANK_11/1/22	EPA 353.2	281756		
70234464002	OBS-1_10/25/2022	EPA 353.2	279494		
70234464005	BLIND DUPLICATE	EPA 353.2	279497		
70234464006	MW-09C_10/26/22	EPA 353.2	279497		
70234464007	MW-09B_10/26/22	EPA 353.2	279497		
70234464012	LF-2_10/28/22	EPA 353.2	279929		
70234464015	MW-08A_10/27/2022	EPA 353.2	279876		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464017	**MW-08B_10/27/2022**	EPA 353.2	279876		
70234464019	**MW-05B_10/27/2022**	EPA 353.2	279876		
70234464022	**MW-06F_10/31/22**	EPA 353.2	280479		
70234464024	**MW-06C_10/31/22**	EPA 353.2	280479		
70234464026	**MW-06A_10/31/22**	EPA 353.2	280479		
70234464029	**LF-1_11/1/22**	EPA 353.2	280481		
70234464031	**MW-06E_11/1/22**	EPA 353.2	280481		
70234464033	**MW-06B_11/1/22**	EPA 353.2	280481		
70234464035	**FIELD BLANK_11/1/22**	EPA 353.2	280481		
70234464002	**OBS-1_10/25/2022**	SM20/22 4500-CN-C	281012	SM22 4500-CN-E	281099
70234464005	**BLIND DUPLICATE**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464006	**MW-09C_10/26/22**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464007	**MW-09B_10/26/22**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464012	**LF-2_10/28/22**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464015	**MW-08A_10/27/2022**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464017	**MW-08B_10/27/2022**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464019	**MW-05B_10/27/2022**	SM20/22 4500-CN-C	281014	SM22 4500-CN-E	281102
70234464022	**MW-06F_10/31/22**	SM20/22 4500-CN-C	281167	SM22 4500-CN-E	281290
70234464024	**MW-06C_10/31/22**	SM20/22 4500-CN-C	281167	SM22 4500-CN-E	281290
70234464026	**MW-06A_10/31/22**	SM20/22 4500-CN-C	281167	SM22 4500-CN-E	281290
70234464029	**LF-1_11/1/22**	SM20/22 4500-CN-C	281759	SM22 4500-CN-E	281858
70234464031	**MW-06E_11/1/22**	SM20/22 4500-CN-C	281759	SM22 4500-CN-E	281858
70234464033	**MW-06B_11/1/22**	SM20/22 4500-CN-C	281759	SM22 4500-CN-E	281858
70234464035	**FIELD BLANK_11/1/22**	SM20/22 4500-CN-C	281759	SM22 4500-CN-E	281858
70234464002	**OBS-1_10/25/2022**	SM22 4500-Cl-E	279519		
70234464005	**BLIND DUPLICATE**	SM22 4500-Cl-E	279934		
70234464006	**MW-09C_10/26/22**	SM22 4500-Cl-E	279934		
70234464007	**MW-09B_10/26/22**	SM22 4500-Cl-E	279934		
70234464012	**LF-2_10/28/22**	SM22 4500-Cl-E	280317		
70234464015	**MW-08A_10/27/2022**	SM22 4500-Cl-E	280317		
70234464017	**MW-08B_10/27/2022**	SM22 4500-Cl-E	280317		
70234464019	**MW-05B_10/27/2022**	SM22 4500-Cl-E	280317		
70234464022	**MW-06F_10/31/22**	SM22 4500-Cl-E	280592		
70234464024	**MW-06C_10/31/22**	SM22 4500-Cl-E	280592		
70234464026	**MW-06A_10/31/22**	SM22 4500-Cl-E	280592		
70234464029	**LF-1_11/1/22**	SM22 4500-Cl-E	280984		
70234464031	**MW-06E_11/1/22**	SM22 4500-Cl-E	280984		
70234464033	**MW-06B_11/1/22**	SM22 4500-Cl-E	280984		
70234464035	**FIELD BLANK_11/1/22**	SM22 4500-Cl-E	280984		
70234464002	**OBS-1_10/25/2022**	SM22 4500 NH3 H	279614		
70234464005	**BLIND DUPLICATE**	SM22 4500 NH3 H	279973		
70234464006	**MW-09C_10/26/22**	SM22 4500 NH3 H	279973		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/25
Pace Project No.: 70234464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70234464007	**MW-09B_10/26/22**	SM22 4500 NH3 H	279973		
70234464012	**LF-2_10/28/22**	SM22 4500 NH3 H	280104		
70234464015	**MW-08A_10/27/2022**	SM22 4500 NH3 H	280104		
70234464017	**MW-08B_10/27/2022**	SM22 4500 NH3 H	280105		
70234464019	**MW-05B_10/27/2022**	SM22 4500 NH3 H	280105		
70234464022	**MW-06F_10/31/22**	SM22 4500 NH3 H	280519		
70234464024	**MW-06C_10/31/22**	SM22 4500 NH3 H	280519		
70234464026	**MW-06A_10/31/22**	SM22 4500 NH3 H	280519		
70234464029	**LF-1_11/1/22**	SM22 4500 NH3 H	281776		
70234464031	**MW-06E_11/1/22**	SM22 4500 NH3 H	281776		
70234464033	**MW-06B_11/1/22**	SM22 4500 NH3 H	281940		
70234464035	**FIELD BLANK_11/1/22**	SM22 4500 NH3 H	281776		

WO# : 70234464

70234464

Pace

CHAIN-OF-CUSTODY / Analyt

The Chain-of-Custody is a LEGAL DOCUMENT

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	Town of Oyster Bay
Address:	150 Miller Place
	Syosset, NY 11791
Email:	mrusso@tobays.net
Phone:	NONE — Fax:
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	Russo, Matt
Copy To:	
Purchase Order #:	
Project Name:	Old Bethpage Landfill
Project #:	3612-08 (Second Semi Annual ?) POST-Remediation GW Sampling

Section C — Invoice Information:

Attention:	MATT RUSSO
Company Name:	Town of Oyster Bay
Address:	150 Miller Place
Pace Quote:	
Pace Project Manager:	giovanna.deloca@pacelabs.com,
Pace Profile #:	6466

Regulatory Agency	
State / Location	NY

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): N N N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	TRip Blank-10/25/2022	WT	-	10/25/22	-	10/25/22	—		2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-	-	N
2	OBS-1-10/25/2022	WT	G	10/25/22	3:55 pm	10/25/22	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Notes: VOCs, total and dissolved metals, (exclude indicators field filtered for dissolved metal and (Cr+6)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Old Bethpage Landfill	Keith Robins / D&B Eng	10/25/2022	18:02	S.F. PC LI	10/25/22	18:02	8.0°	Y	N/A	Y

Provide category 'B' and EQuIS
Provide data to lab data @ db-eng.com
Samples denoted with F on HNO3 plastic containers were field filtered for dissolved metals and dissolved CR+6

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins — DATE Signed: 10/25/2022

Sample Condition Upon Rec

Pace Analytical®

WO#: 70234464

PM: GFD **Due Date: 11/09/22**

CLIENT: TOY

Client Name: TOY Proj

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☒ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH148 Correction Factor: +0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 8.0 Cooler Temperature Corrected(°C): 8.1

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: KW 10/25/22

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC99130				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot # 14860				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 160175				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

WO#: 70234464
PM: GFD Due Date: 11/09/22
CLIENT: TOY

Pace

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL D[...]

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms a[...]ns.pdf.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Town of Oyster Bay	Report To: Russo, Matt	Attention: Matt Russo	
Address: 150 Miller Place	Copy To:	Company Name: Town of Oyster Bay	
Syosset, NY 11791		Address: 150 Miller Place	Regulatory Agency
Email: mrusso@tobays.net	Purchase Order #:	Pace Quote:	
Phone: NONE Fax:	Project Name: Old Bethpage Landfill	Pace Project Manager: giovanna.deloca@pacelabs.com,	State / Location
Requested Due Date: Standard	Project #: 3763 - Old Bethpage 2nd Semi-annual Post formation Event 2022	Pace Profile #: 6466	NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): VOC by 8260 N; NH3,NO3,Phenols,TKN N; Cyanide N; Total Metals & Hardness N; Dissolved Metals (field filter) N; Dissolved Cr+6 (Field Filter) N; Alk,Cl,SO4,CO3,Cr6,HCO3 N; No2,TDS N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	Trip Blank-10/21/2022	WT	—	10/26/22	—	10/26/22	—		2	-	-	-	2	-	-	-	-	✓	-	-	-	-	-	-	-	N
2	Blind Duplicate	WT	G	10/26/22	0000	10/26/22	—		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-09C-10/26/22	WT	G	10/26/22	1:15 pm	10/26/22	—		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-09B-10/26/22	WT	G	10/26/22	3:35 pm	10/26/22	—		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Notes: VOCs, Leachate Indicators, total and dissolved metals. Field filtered for dissolved metals and Cr(+6)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B Engineers	10/26/22	600pm	[signature]	10/26	18:10	0.2	Y	N	Y

Provide Category 'B' and EQuis
Send data to lab data @ db-engineers
Sample containers denoted with (F) were field filtered for Chromium +6 and dissolved metals

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 10-26-2022

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical®

Sample Condition Upon Rec

WO# : 70234464

PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Client Name: Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #:
Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No ☑ N/A
Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other
Type of Ice: (Wet) Blue None
Thermometer Used: TH148 Correction Factor: + 0.1
☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.2 Cooler Temperature Corrected(°C): 0.3
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: SMR 10/26

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No
If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 212521				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

Pace

WO#: 70234464
PM: GFD Due Date: 11/09/22
CLIENT: TOY

CHAIN-OF-CUSTODY / Ana[lytical Request Document]

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions. The Chain-of-Custody is a LEGAL DOCUMENT.

Page: 1 Of 1

Section A — Required Client Information:

- Company: Town of Oyster Bay
- Address: 150 Miller Place, Syosset, NY 11791
- Email: mrusso@tobays.net
- Phone: NONE Fax:
- Requested Due Date: Standard

Section B — Required Project Information:

- Report To: Russo, Matt
- Copy To: Keith Robins (D+B)
- Purchase Order #:
- Project Name: Old Bethpage Landfill
- Project #: 3763 - Second Post Remedial GW Sampling Event 2022

Section C — Invoice Information:

- Attention: Matt Russo
- Company Name: Town of Oyster Bay
- Address: 150 Miller Place, NY
- Pace Quote:
- Pace Project Manager: giovanna.deloca@pacelabs.com,
- Pace Profile #: 6466

Regulatory Agency:
State / Location: NY

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): N N N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (field filtered)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	Trip Blank - 10/27/2022	WT	-	10/27/22	-	10/27/22	-		2	-	-	-	2	-	-	-	-	✓	-	-	-	-	-	-	-	N
2	MW-08A - 10/27/2022	WT	G	10/27/22	5:50 pm	10/27/22	-		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-08B - 10/27/2022	WT	G	10/27/22	4:20 pm	10/27/22	-		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-05B - 10/27/2022	WT	G	10/27/22	12:15 pm	10/27/22	-		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

VOCs, leachate indicators, total and dissolved metals and CR+6

ADDITIONAL COMMENTS

Old Bethpage Landfill
Provide EQuIS and Category B deliverables
Send data to lab data @ db-eng.com
Sample containers denoted with (F) were field filtered for CR+6 and dissolved metals

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Keith Robins / D+B	10/28/2022	0835	[signature] P-LI	10/28	9:55	1.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins
SIGNATURE of SAMPLER: Keith Robins
DATE Signed: 10-28-2022

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical

Client Name: Proj

PM: GFD Due Date: 11/09/22
CLIENT: TOY

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No ☑ N/A Temperature Blank Present: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: ~~TH091~~ TH148 Correction Factor: + 0.1 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.2 Cooler Temperature Corrected(°C): 1.3 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: SMR 10/28

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
--Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☑ Yes	☐ No	~~☐ N/A~~ SMR	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	~~☐ N/A~~	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 14-862				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Town of Oyster Bay
Address:	150 Miller Place	Copy To:	Keith Robbins (D&B)	Company Name:	Matt Russo
	Syosset, NY 11791			Address:	150 Miller Place, Syosset NY 11791
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone: NONE	Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	Standard	Project #:	3763 Post Termination Second Semi-annual Event 2022	Pace Profile #:	6466

Regulatory Agency:

State / Location: NY

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): VOC by 8260 N; NH3,NO3,Phenols,TKN N; Cyanide N; Total Metals & Hardness N; Dissolved Metals (field filter) N; Dissolved Cr+6 (field filter) N; Alk,Cl,SO4,CO3,Cr6,HCO3 N; No2,TDS N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (field filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
1	Trip Blank 10/28/22	WT	G	10/28/22	—	10/28/22	—		1	—	—	—	2	—	—	—	—		√	—	—	—	—	—	—	—	N	VOCs leachate indicators total and dissolved metals + CR+6
2	LF-2-10/28/22	WT	G	10/28/22	1233 pm	10/28/22	—		8	2	1	2	2	1	—	—	—		√	√	√	√	√	√	√	√	N	
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

WO#: 70234464
PM: GFD Due Date: 11/09/22
CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robbins / D&B Engineers	10/28/22	1:15 pm	[signature] Pace LI	10/28/22	13:14	1.0	(W)	N/A	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Provide Category B and EDD deliverables. Send data to Lab data @ db-eng.com. Sample bottles denoted with ("F") were field filtered for CR+6 and dissolved metals.

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Keith Robbins
SIGNATURE of SAMPLER: Keith Robbins DATE Signed: 10-28-2022

Pace Analytical

Client Name: Proj

PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #:
Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No ☑ N/A
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other
Thermometer Used: ~~TH091~~ TH148 Correction Factor: + 0.1
Cooler Temperature(°C): 1.6 Cooler Temperature Corrected(°C): 1.7
Temp should be above freezing to 6.0°C
USDA Regulated Soil (☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No
Type of Ice: (Wet) Blue None
☐ Samples on ice, cooling process has begun
Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: SMR 10/28

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 14-862				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:
Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

CHAIN-OF-CUSTODY / Analytical Req

Pace

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

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

WO#: 70234464
PM: GFD
Due Date: 11/09/22
CLIENT: TOY

1

ction A	Section B	Section C
quired Client Information:	Required Project Information:	Invoice Information:
mpany: Town of Oyster Bay	Report To: Russo, Matt	Attention: MATT RUSSO
dress: 150 Miller Place	Copy To: Keith Robins (D&B Engineers)	Company Name: Town of Oyster Bay
osset, NY 11791		Address: 150 Miller Place, Syosset NY
ail: mrusso@tobays.net	Purchase Order #:	Pace Quote:
one: NONE / Fax:	Project Name: Old Bethpage Landfill	Pace Project Manager: giovanna.deloca@pacelabs.com,
quested Due Date: Standard	Project #: 3617-07 Post Remediation 2nd Semi-annual GW Event-2022	Pace Profile #: 6466

Regulatory Agency

State / Location: NY

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): N N N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (field filtered)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	TRIP Blank – 10/31/2022	WT	–	10/31/22	—	10/31/22	—		2	–	–	–	2	–	–	–	–		√	–	–	–	–	–	–	–	N
2	MW-06F – 10/31/22	WT	G	10/31/22	2:15 pm	10/31/22	—		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√	N
3	MW-06C – 10/31/22	WT	G	10/31/22	3:50 pm	10/31/22	—		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√	N
4	MW-06A – 10/31/22	WT	G	10/31/22	5:20 pm	10/31/22	—		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√	N
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

VOCs, leachate indicators, Total and dissolved metals - field-filtered for dissolved CR+6 and dissolved metals

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B Engineers	11/1/22	0940	[signature] Pace CT	11/1/22	9:46	22	wet		

provide Category "B" and EQuIS deliverables
Send data to lab data @ db-eng.com
Sample bottles denoted with (F) were field filtered for CR+6/and metals

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 11/1/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical®

Sample Condition Upon Rec

WO# : 70234464

PM: GFD **Due Date: 11/09/22**

CLIENT: TOY

Client Name: Town of Oyster Bay Projec

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

Tracking #:

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

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

Thermometer Used: TH148 Correction Factor: + 0.1

Cooler Temperature(°C): 2.2 Cooler Temperature Corrected(°C): 2.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☐ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KB, 11/1/22

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 136410-506				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☑ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins (D+B Engineers)	Company Name:	Town of Oyster Bay
	Syosset, NY 11791			Address:	150 Miller Place, Syosset NY
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com
Requested Due Date:	Standard	Project #:	3617-07 Post Termination GW Semi-annual 2nd - 2022 Event	Pace Profile #:	6466

Regulatory Agency: NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field filtered)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
	MATRIX: Drinking Water CODE DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	N	N	
1	Trip Blank - 11/1/2022	WT	-	11/1/22	-	11/1/22	-		2	-	-	-	HCl	-	-	-	-		✓	-	-	-	-	-	-	-	N
2	LF-1 - 11/1/22	WT	G	11/1/22	12:00 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-06E - 11/1/22	WT	G	11/1/22	6:45 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-06B - 11/1/22	WT	G	11/1/22	2:30 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N
5	Field Blank - 11/1/22	WT	G	11/1/22	7:00 pm	11/1/22	-		8	2	1	2	HCl	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N
6																											
7																											
8																											
9																											
10																											
11																											
12																											

VOC, Leachate indicators, total and dissolved metals incl CR+6

WO#: 70234464

PM: GFD Due Date: 11/09/22

CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Old Bethpage Landfill	Keith Robins / D+B Engrs	11/2/22	1130 AM		11/2/22	11:40	1.2	Y	N	Y
provide Category "B" and EDDs deliverables										
Send data to Lab data@dandb-eng.com										
Sample bottles designated with (F) were field filtered for dissolved CR+6 and dissolved metals.										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 11/2/22

Pace Analytical®

Sample Condition Upon Re

WO#: 70234464
PM: GFD **Due Date: 11/09/22**
CLIENT: TOY

Client Name: TOY

Proj

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☒ No

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

Type of Ice: ~~Wet~~ Blue None

Thermometer Used: T#148 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.2 Cooler Temperature Corrected(°C): 1.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: KW 11/2/22

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

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

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

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☒ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for I	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☒ Yes	☐ No	~~☐ N/A~~	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL WT OIL				
All containers needing preservation have been checked?	☒ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☒ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☒ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot # 14-846				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☒ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 560125				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

70234464

For:

LATOYA SOBRATIE

Pace Analytical Melville

575 BROAD HOLLOW RD

MELVILLE, NY 11747

Project State of Origin: New York

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH	10861	NY State Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Michelle Taylor

Michelle Taylor
Project Manager
Michelle.Taylor@microbac.com

Authorized By:

Michelle Taylor

Michelle Taylor
Project Manager
Issued: 11/29/2022

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 2.6ºC

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	OBS-1-10/25/2022			**Collection Date:**	10/25/2022 15:55
Laboratory ID:	M2K0506-01			**Prep Date:**	11/22/2022 09:01
Matrix:	Aqueous			**Analyzed:**	11/22/2022 15:17
Batch / Sequence:	B2K1250 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1250_221122023241.xls
Analyst:	EPT	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	BLIND DUPLICATE			**Collection Date:**	10/26/2022 00:01
Laboratory ID:	M2K0506-02			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0038	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-09C-10/26/22			**Collection Date:**	10/26/2022 13:15
Laboratory ID:	M2K0506-03			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0047	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-09B-10/26/22			**Collection Date:**	10/26/2022 15:30
Laboratory ID:	M2K0506-04			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	LF-2-10/28/22			**Collection Date:**	10/28/2022 12:30
Laboratory ID:	M2K0506-05			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	**0.0157**	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-08A-10/27/2022			**Collection Date:**	10/27/2022 17:50
Laboratory ID:	M2K0506-06			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-08B-10/27/2022			**Collection Date:**	10/27/2022 16:20
Laboratory ID:	M2K0506-07			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0047	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-05B-10/27/22			**Collection Date:**	10/27/2022 12:15
Laboratory ID:	M2K0506-08			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0038	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-06F-10/31/22			**Collection Date:**	10/31/2022 14:15
Laboratory ID:	M2K0506-09			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-06C-10/31/22			**Collection Date:**	10/31/2022 15:50
Laboratory ID:	M2K0506-10			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0042	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-06A-10/31/22			**Collection Date:**	10/31/2022 17:20
Laboratory ID:	M2K0506-11			**Prep Date:**	11/22/2022 10:11
Matrix:	Aqueous			**Analyzed:**	11/23/2022 11:18
Batch / Sequence:	B2K1269 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1269_221123094625.xls
Analyst:	APH	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0030	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	LF-1-11/1/22			**Collection Date:**	11/01/2022 12:00
Laboratory ID:	M2K0506-12			**Prep Date:**	11/23/2022 08:56
Matrix:	Aqueous			**Analyzed:**	11/28/2022 14:40
Batch / Sequence:	B2K1334 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1334_221128083503.xls
Analyst:	ttb	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-06E-11/1/22			**Collection Date:**	11/01/2022 18:45
Laboratory ID:	M2K0506-13			**Prep Date:**	11/23/2022 08:56
Matrix:	Aqueous			**Analyzed:**	11/28/2022 14:40
Batch / Sequence:	B2K1334 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1334_221128083503.xls
Analyst:	ttb	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0034	0.0028	0.0055	J	

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	MW-06B-11/1/22			**Collection Date:**	11/01/2022 14:30
Laboratory ID:	M2K0506-14			**Prep Date:**	11/23/2022 08:56
Matrix:	Aqueous			**Analyzed:**	11/28/2022 14:40
Batch / Sequence:	B2K1334 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1334_221128083503.xls
Analyst:	ttb	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	**0.0089**	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	FIELD BLANK-11/1/22			**Collection Date:**	11/01/2022 19:00
Laboratory ID:	M2K0506-15			**Prep Date:**	11/23/2022 08:56
Matrix:	Aqueous			**Analyzed:**	11/28/2022 14:40
Batch / Sequence:	B2K1334 /	**Analytical Method:**	EPA 420.1	**Calibration:**	NA
Instrument:	UV-2600	**Units:**	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2K1334_221128083503.xls
Analyst:	ttb	**Dilution:**	1.1		

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Notes and Definitions

J: The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
mg/L: Milligrams per Liter
MDL: Method Detection Limit
RL: Reporting Limit

METHOD BLANKS

Sample ID:	B2K1250-BLK1	**Prep Date:**	11/22/22 14:26	**Matrix:**	Aqueous
Instrument:	UV-2600	**Analyzed:**	11/22/22 15:17	**Method:**	EPA 420.1
File ID:	Phenols_UV2600-2022	**Sequence:**		**Analyst:**	EPT
Batch:	B2K1250	**Units:**	mg/L	**Calibration:**	

Analyte	Result	MDL	RL	Dilution	Flag	Q
Phenolics, Total	0.0025	0.0025	0.0050	1	U	

Sample ID:	B2K1269-BLK1	**Prep Date:**	11/22/22 10:11	**Matrix:**	Aqueous
Instrument:	UV-2600	**Analyzed:**	11/23/22 11:18	**Method:**	EPA 420.1
File ID:	Phenols_UV2600-2022	**Sequence:**		**Analyst:**	APH
Batch:	B2K1269	**Units:**	mg/L	**Calibration:**	

Analyte	Result	MDL	RL	Dilution	Flag	Q
Phenolics, Total	0.0025	0.0025	0.0050	1	U	

Sample ID:	B2K1334-BLK1	**Prep Date:**	11/23/22 08:56	**Matrix:**	Aqueous
Instrument:	UV-2600	**Analyzed:**	11/28/22 14:40	**Method:**	EPA 420.1
File ID:	Phenols_UV2600-2022	**Sequence:**		**Analyst:**	ttb
Batch:	B2K1334	**Units:**	mg/L	**Calibration:**	

Analyte	Result	MDL	RL	Dilution	Flag	Q
Phenolics, Total	0.0025	0.0025	0.0050	1	U	

* - Detected in the associated method Blank at a concentration >= RL

BLANK SPIKE (BS)

Method:	EPA 420.1		**Blank Spike**
Batch:	B2K1250	**Spike ID:**	B2K1250-BS1
Analyst:	EPT	**Prepared:**	11/22/22 14:26
Matrix:	Aqueous	**Analyzed:**	11/22/22 15:17
Units:	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2
Instrument:	UV-2600	**Initial/Final:**	50mL/50mL
Calibration:			

Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Phenolics, Total	0.0500	0.0515	103	80 - 120	

* - Does not meet %Rec acceptance criteria.
# - Does not meet RPD acceptance criteria.

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Method:	EPA 420.1		**Blank Spike**
Batch:	B2K1269	**Spike ID:**	B2K1269-BS1
Analyst:	APH	**Prepared:**	11/22/22 10:11
Matrix:	Aqueous	**Analyzed:**	11/23/22 11:18
Units:	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2
Instrument:	UV-2600	**Initial/Final:**	50mL/50mL
Calibration:			

Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Phenolics, Total	0.500	0.539	108	80 - 120	

* - Does not meet %Rec acceptance criteria.
# - Does not meet RPD acceptance criteria.

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Method:	EPA 420.1		**Blank Spike**
Batch:	B2K1269	**Spike ID:**	B2K1269-BS2
Analyst:	APH	**Prepared:**	11/22/22 10:11
Matrix:	Aqueous	**Analyzed:**	11/23/22 11:18
Units:	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2
Instrument:	UV-2600	**Initial/Final:**	50mL/50mL
Calibration:			

Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Phenolics, Total	0.0500	0.0460	92.1	80 - 120	

* - Does not meet %Rec acceptance criteria.
# - Does not meet RPD acceptance criteria.

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Method:	EPA 420.1		**Blank Spike**
Batch:	B2K1334	**Spike ID:**	B2K1334-BS1
Analyst:	ttb	**Prepared:**	11/23/22 08:56
Matrix:	Aqueous	**Analyzed:**	11/28/22 14:40
Units:	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2
Instrument:	UV-2600	**Initial/Final:**	50mL/50mL
Calibration:			

Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Phenolics, Total	0.500	0.453	90.6	80 - 120	

* - Does not meet %Rec acceptance criteria.
# - Does not meet RPD acceptance criteria.

Laboratory Report Number: M2K0506

Client Project ID: 70234464

Method:	EPA 420.1		**Blank Spike**
Batch:	B2K1334	**Spike ID:**	B2K1334-BS2
Analyst:	ttb	**Prepared:**	11/23/22 08:56
Matrix:	Aqueous	**Analyzed:**	11/28/22 14:40
Units:	mg/L	**File ID:**	Phenols_UV2600-2022-10-18_B2
Instrument:	UV-2600	**Initial/Final:**	50mL/50mL
Calibration:			

Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limts	Q
Phenolics, Total	0.0500	0.0464	92.9	80 - 120	

* - Does not meet %Rec acceptance criteria.
# - Does not meet RPD acceptance criteria.

Chain of Custody

PASI New York Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 70234464 **Workorder Name:** OLD BETHPAGE LANDFILL 10/25 **Results Requested By:** 11/9/2022

Report / Invoice To	Subcontract To
Giovanna F. Deloca Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: giovanna.deloca@pacelabs.com	Microbac Laboratories, Inc 158 Starlite Dr. Marietta, OH 45750 P.O. 70234464GFD

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	Requested Analysis: 4201 Phenols	LAB USE ONLY
1	OBS-1_10/25/2022	10/25/2022 15:55	70234464002	Water		X	
2	BLIND DUPLICATE	10/26/2022 00:00	70234464005	Water		X	
3	MW-09C_10/26/22	10/26/2022 13:15	70234464006	Water		X	
4	MW-09B_10/26/22	10/26/2022 15:30	70234464007	Water		X	
5	LF-2_10/28/22	10/28/2022 12:30	70234464012	Water		X	
6	MW-08A_10/27/2022	10/27/2022 17:50	70234464015	Water		X	
7	MW-08B_10/27/2022	10/27/2022 16:20	70234464017	Water		X	
8	MW-05B_10/27/2022	10/27/2022 12:15	70234464019	Water		X	
9	MW-06F_10/31/22	10/31/2022 14:15	70234464022	Water		X	
10	MW-06C_10/31/22	10/31/2022 15:50	70234464024	Water		X	
11	MW-06A_10/31/22	10/31/2022 17:20	70234464026	Water		X	
12	LF-1_11/1/22	11/1/2022 12:00	70234464029	Water		X	
13	MW-06E_11/1/22	11/1/2022 18:45	70234464031	Water		X	
14	MW-06B_11/1/22	11/1/2022 14:30	70234464033	Water		X	
15	FIELD BLANK_11/1/22	11/1/2022 19:00	70234464035	Water		X	
16							
17							
18							
19							

M 2 K 0 5 0 6

Pace Analytical - Melville, NY
Rec'd: 11/08/2022 09:55
By: Brenda Gregory Temp: 2.6 (Signature)

Monday, November 07, 2022 9:25:23 AM

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature] Pace CT	11/7/22, 1800	Brenda Gregory	11/8/22 0955	
2					
3					

Cooler Temperature on Receipt 2.6 °C	Custody Seal Y or	Received on Ice Y or	Samples Intact Y or

MICROBAC®

Work Order # M2K0504

COOLER TEMP >6° C LOG

SAMPLE ID	Bottle 1 °C	Bottle 2 °C	Bottle 3 °C	Bottle 4 °C	Bottle 5 °C	Bottle 6 °C

11/8/2022 SM

pH Lot # HC291590

pH Exceptions

SAMPLE ID	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6

11/8/2022 SM

PRESERVATIVE EXCEPTIONS

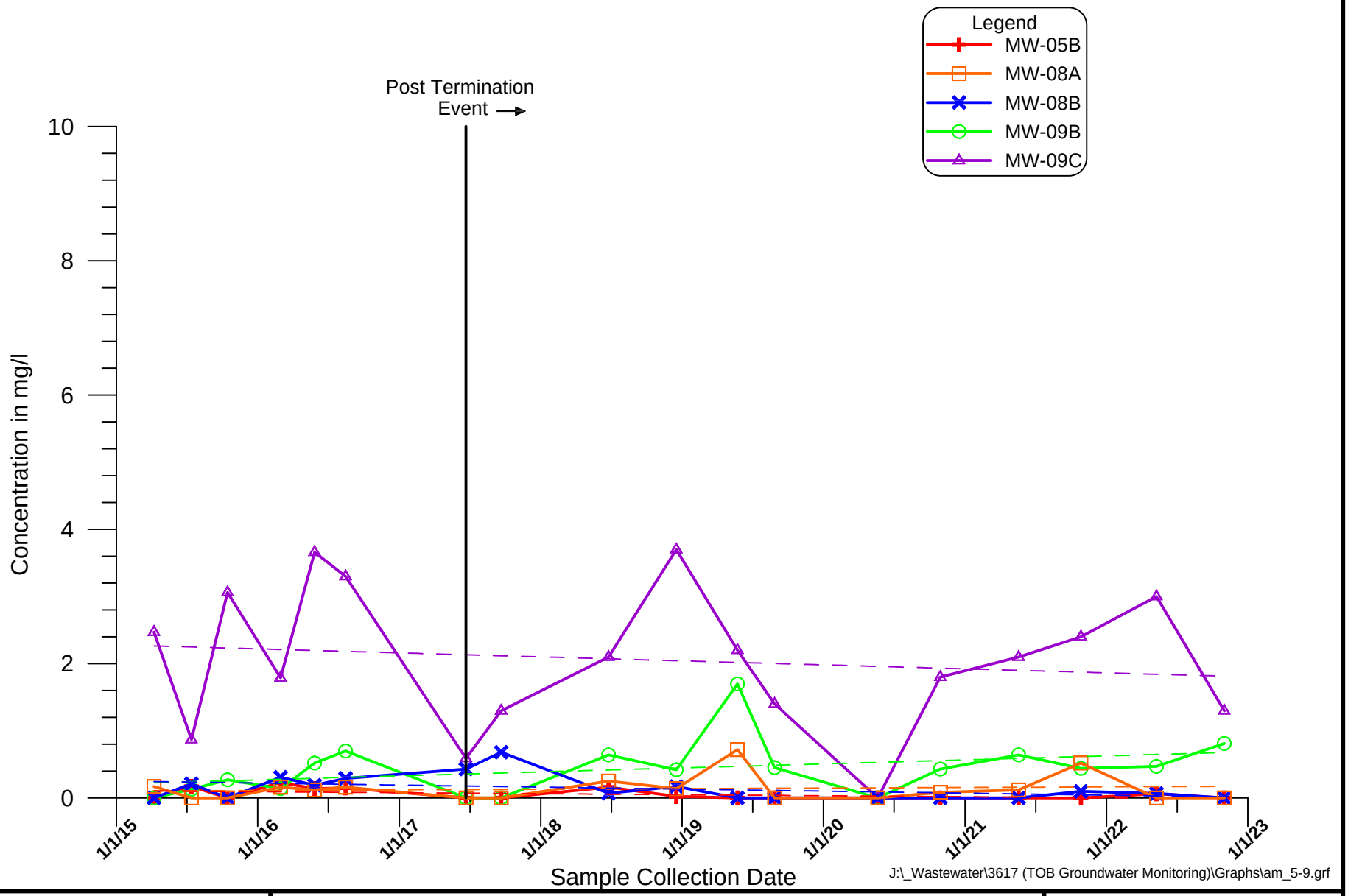
✓ NONE

AS NOTED

11/8/2022 SM

APPENDIX E

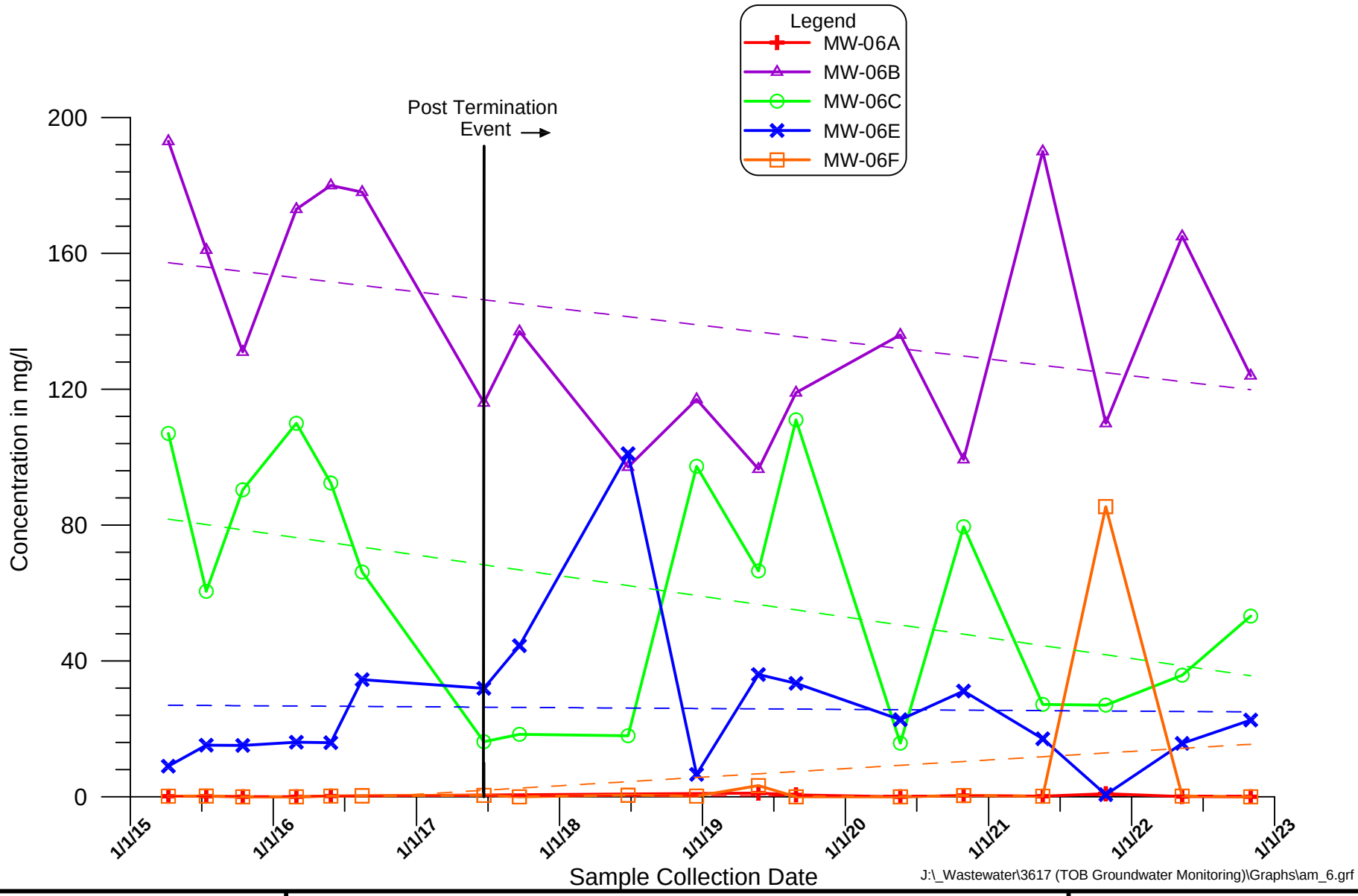
POST-TERMINATION HISTORICAL GROUNDWATER TREND GRAPHS



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Wells 5, 8, & 9

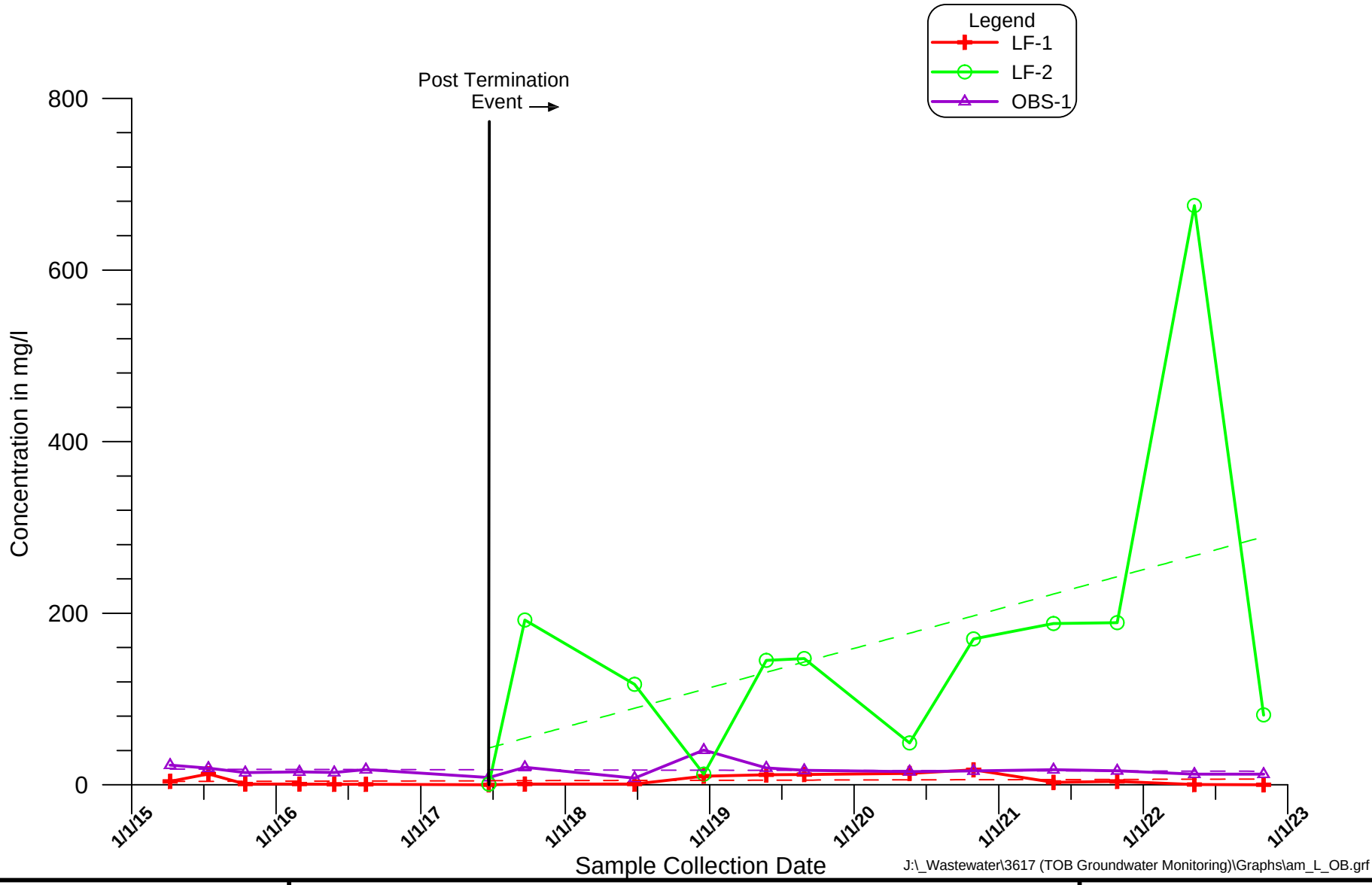
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

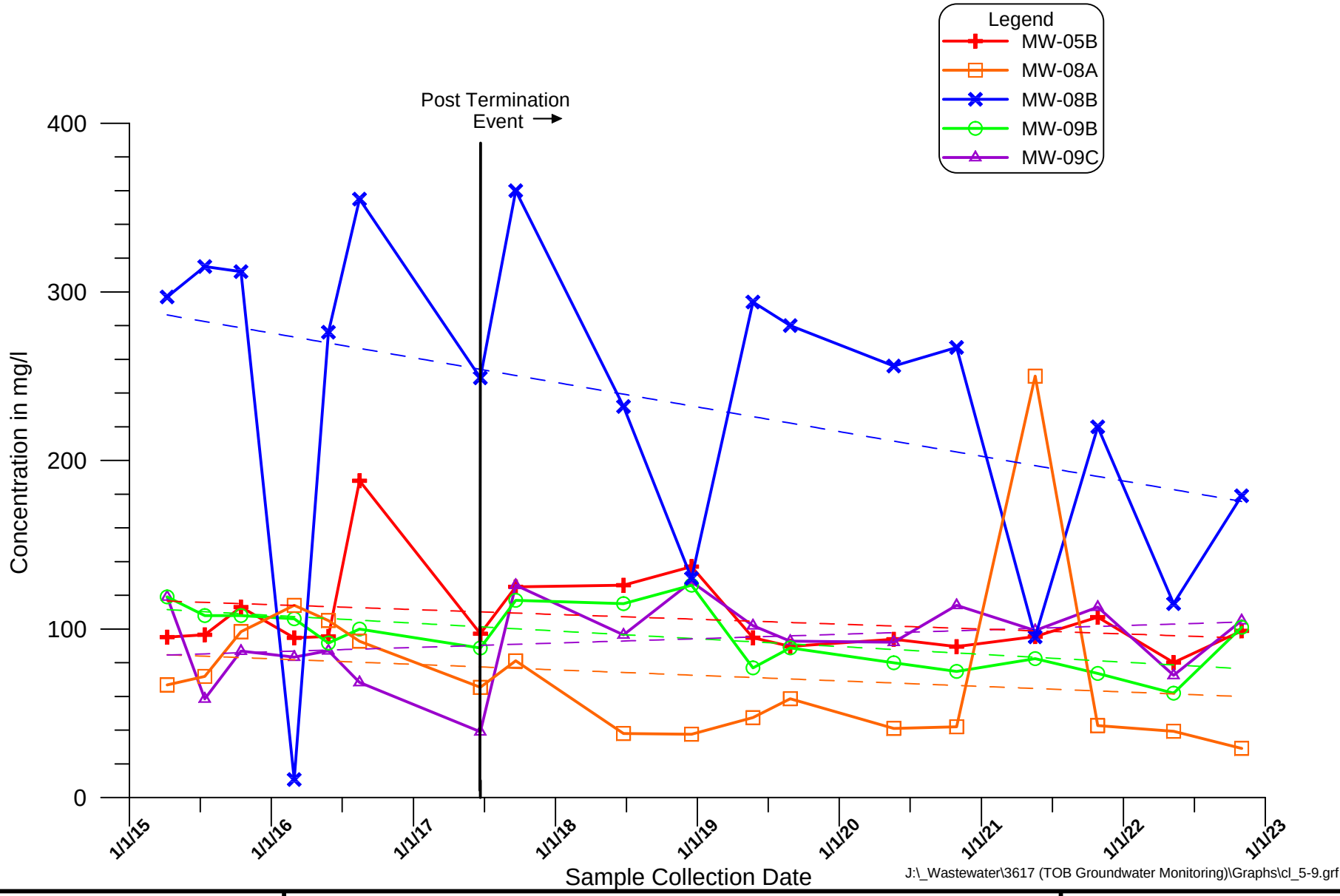
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Wells 5, 8, & 9

Figure
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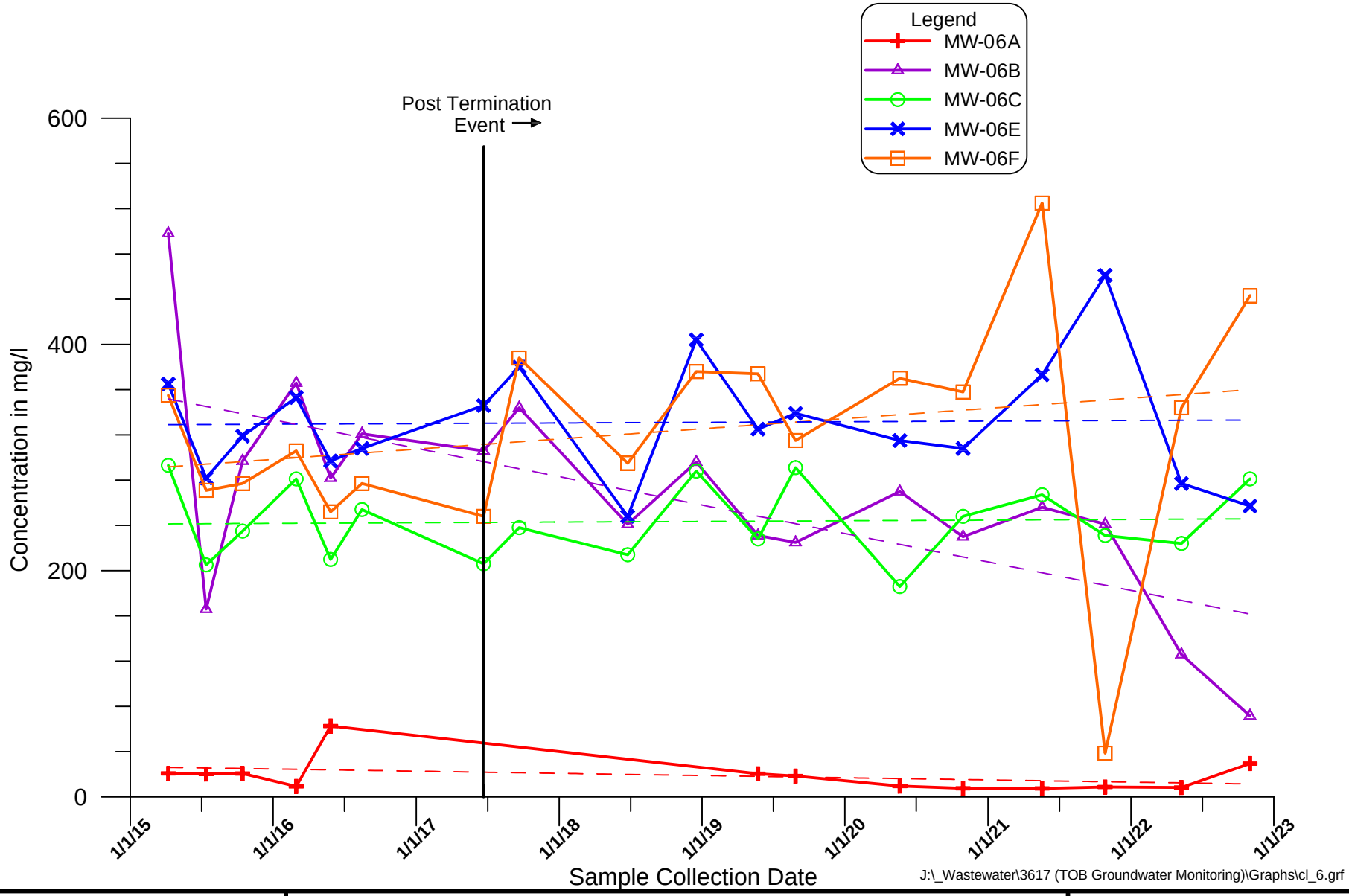
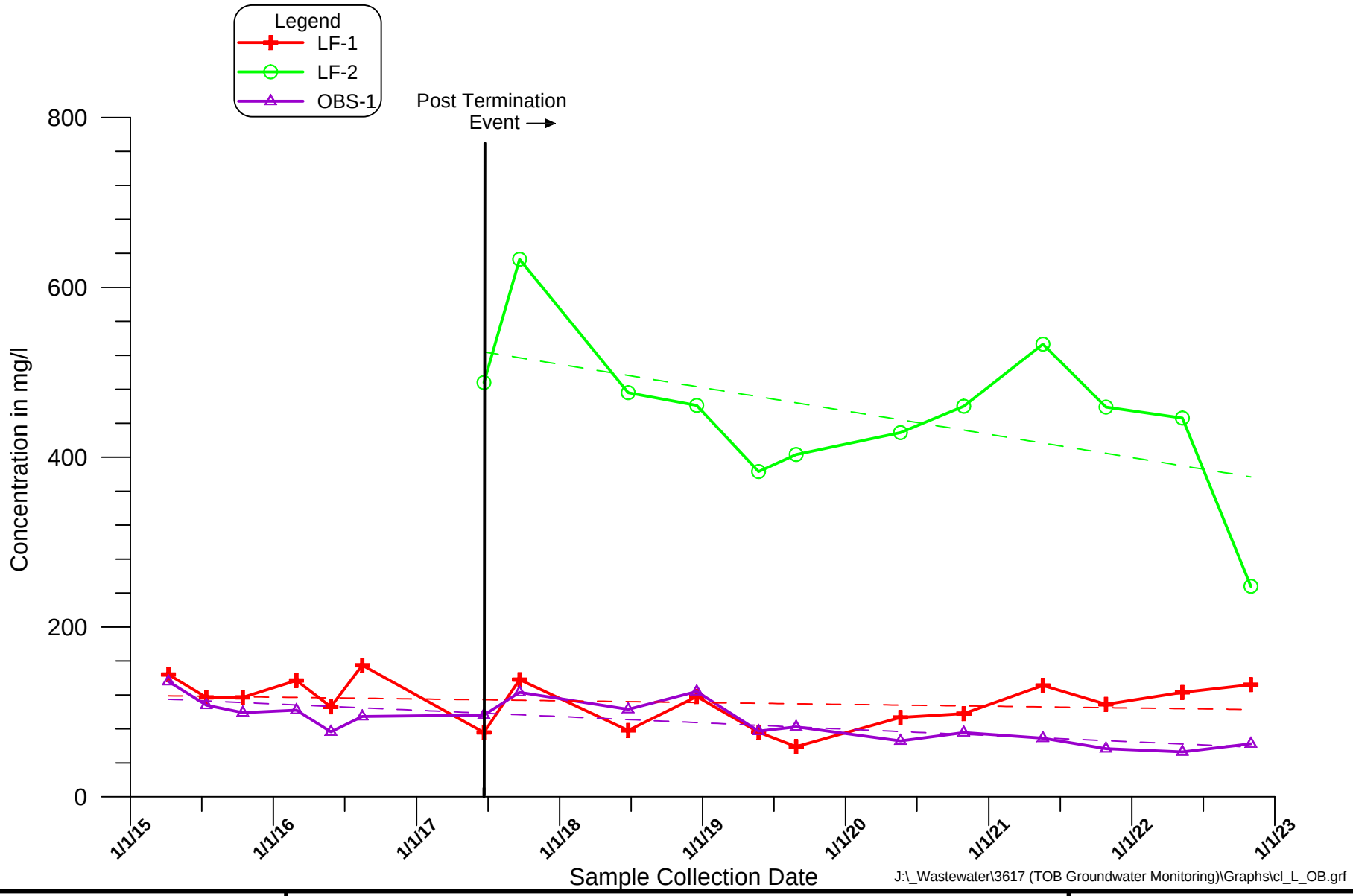


D&B ENGINEERS AND ARCHITECTS

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

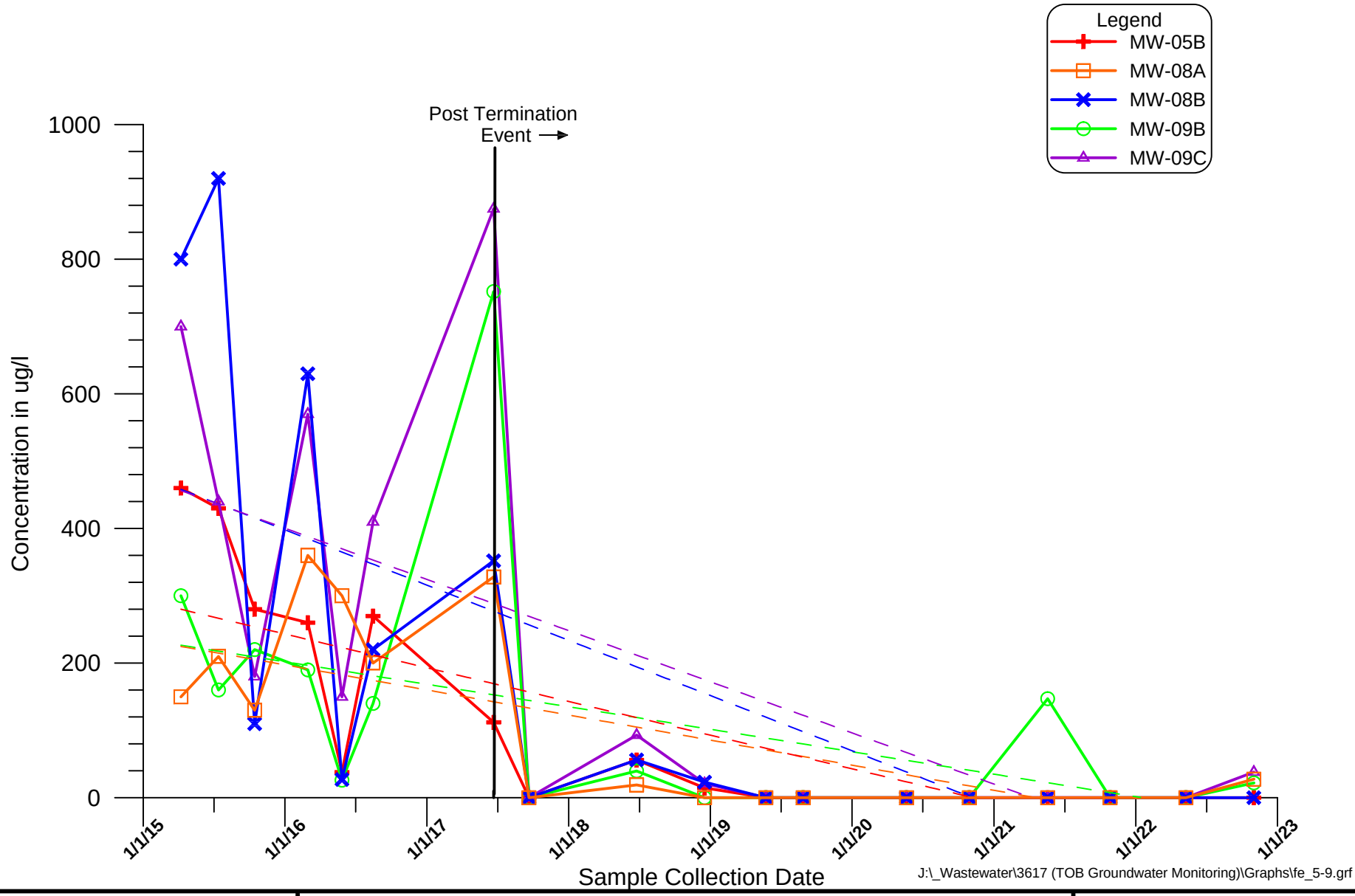
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Wells 5, 8, & 9

Figure
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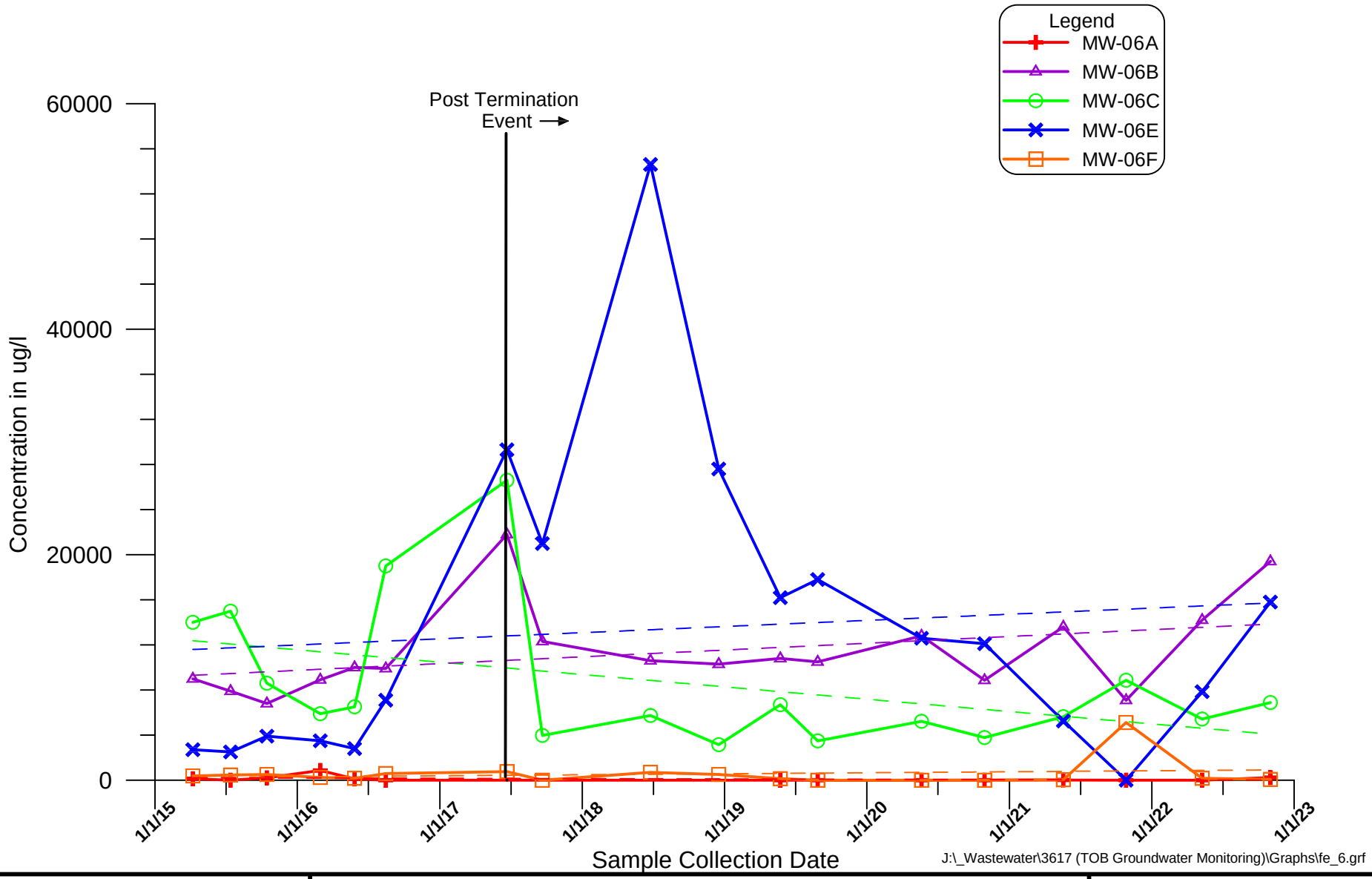
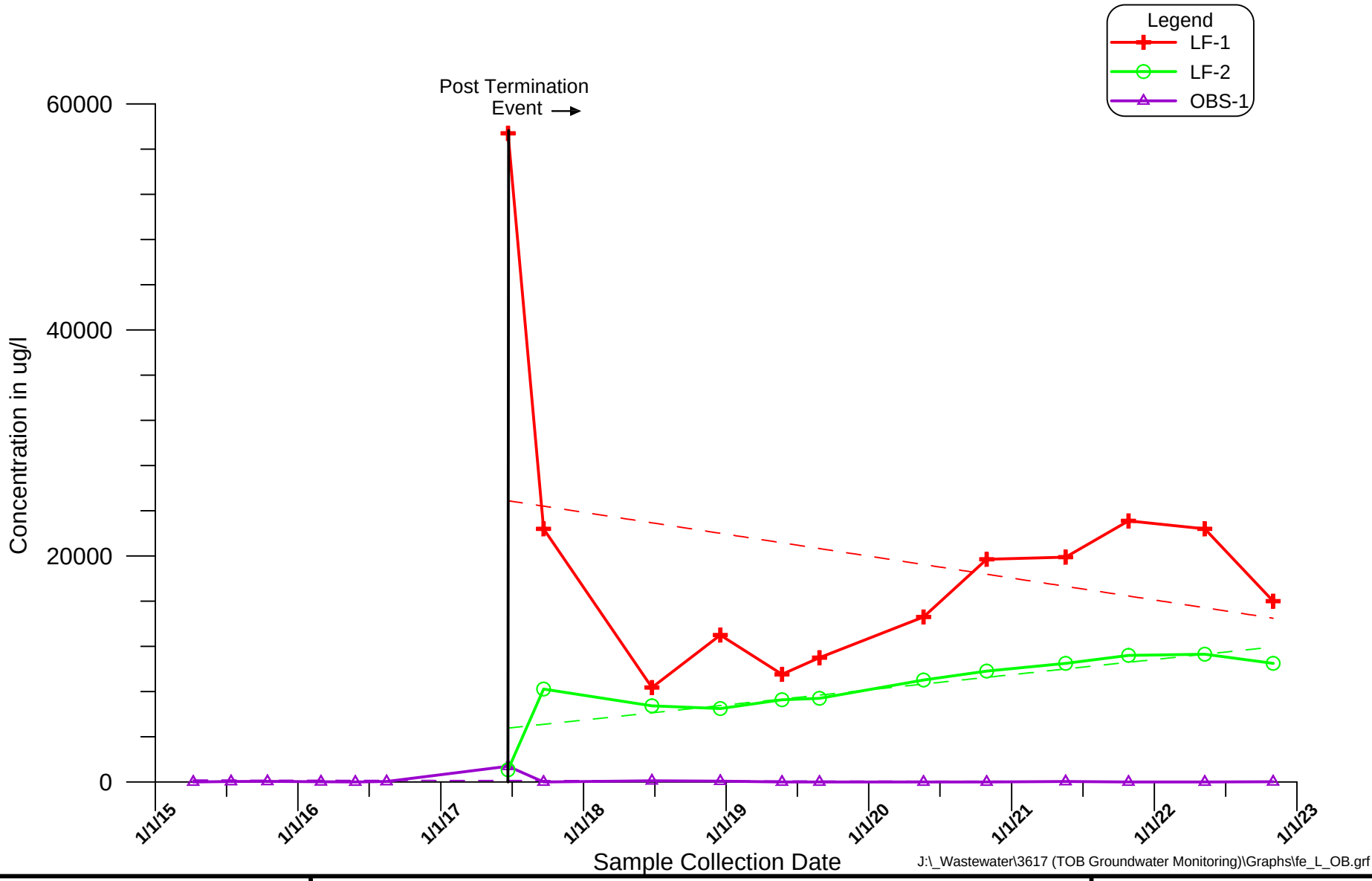


D&B ENGINEERS AND ARCHITECTS

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

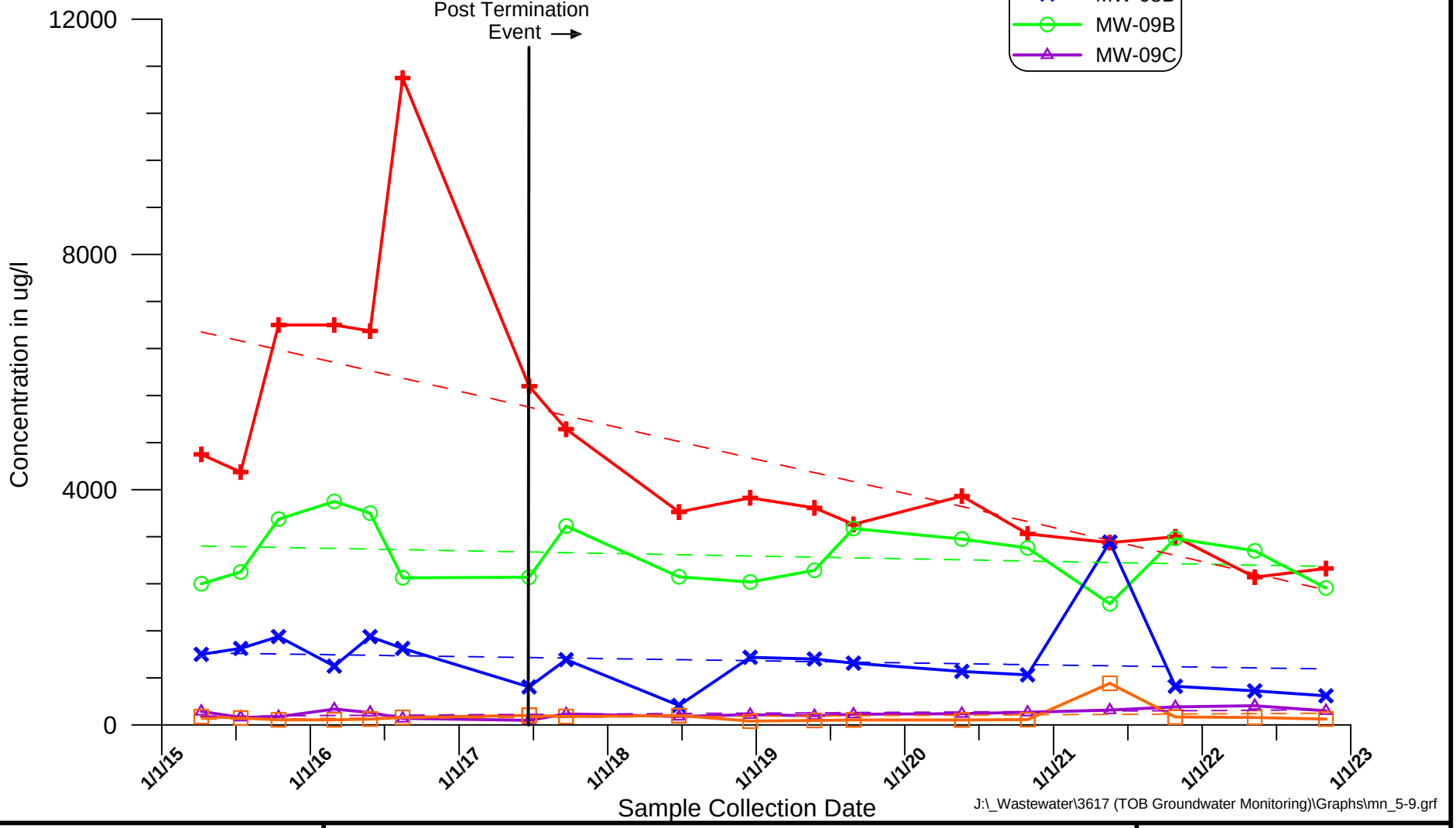
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

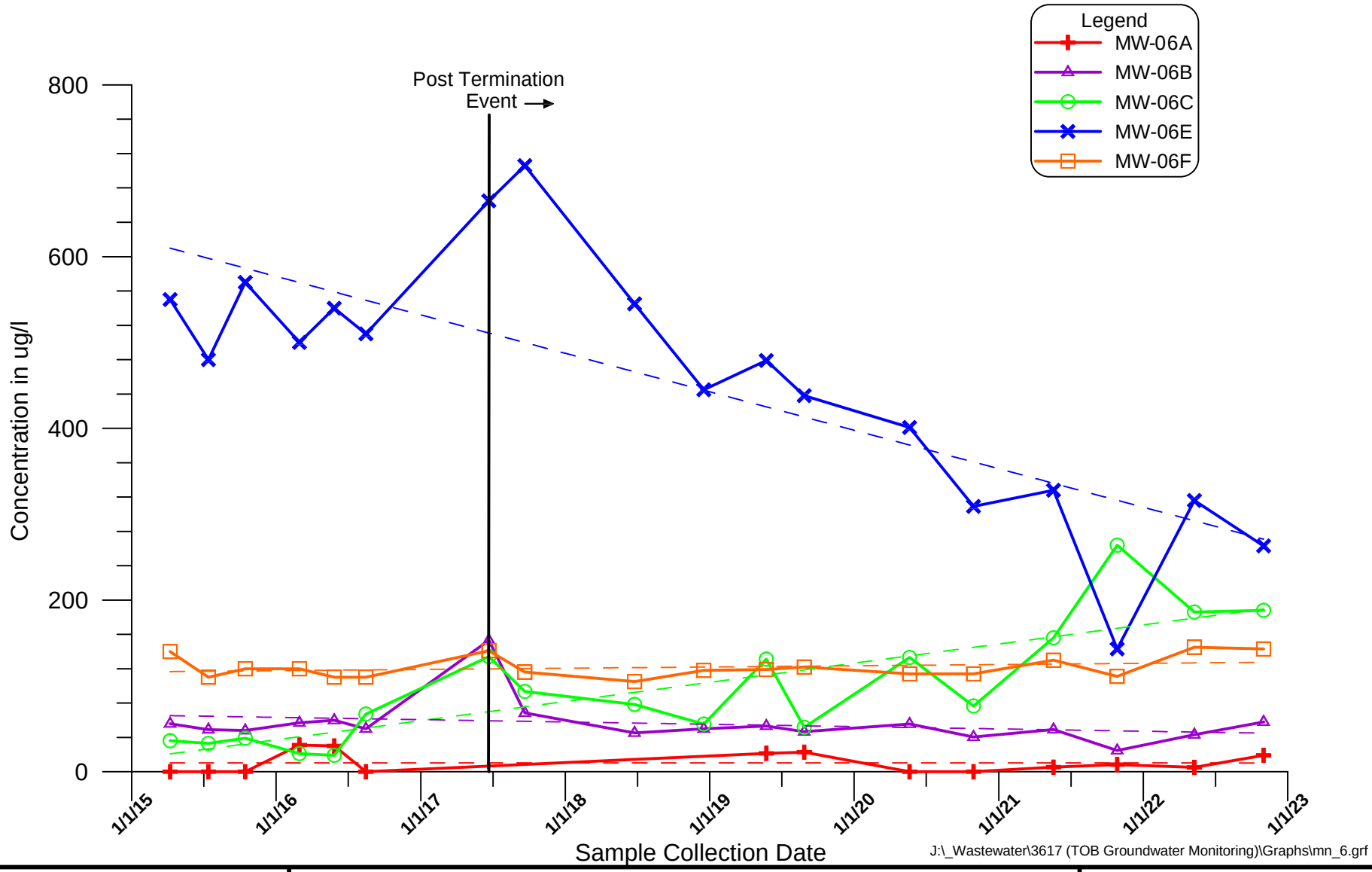
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Wells 5, 8, & 9

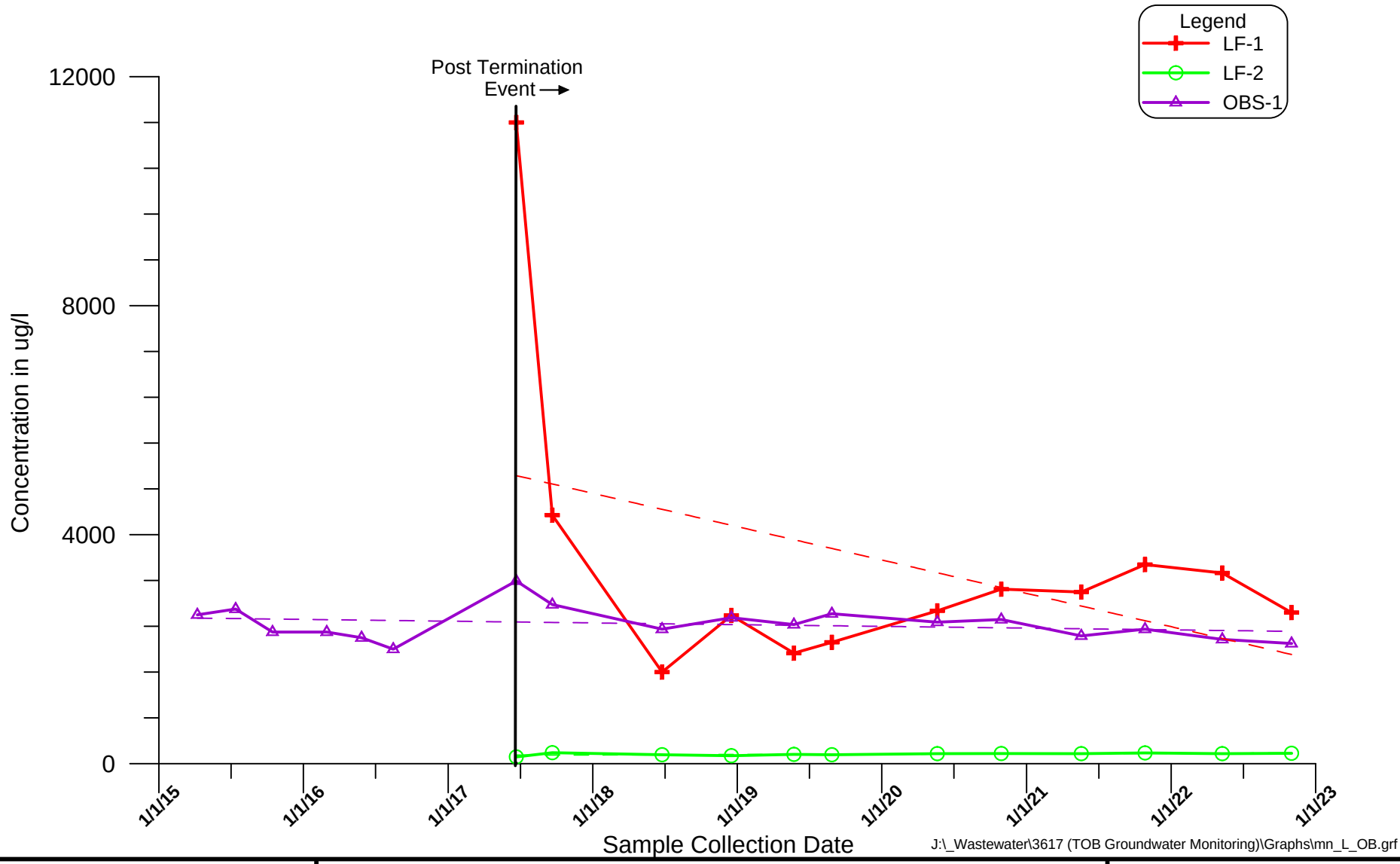
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

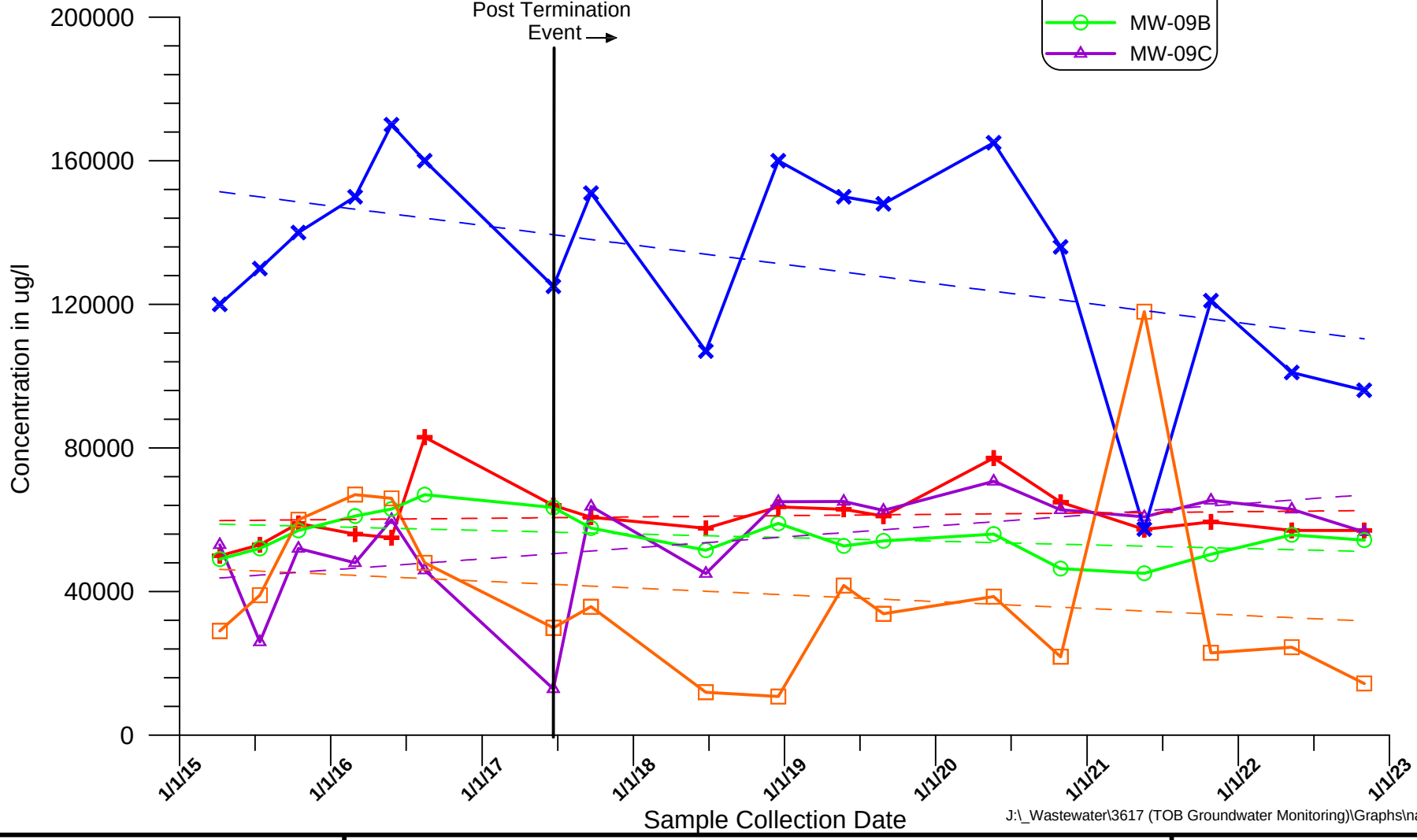
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

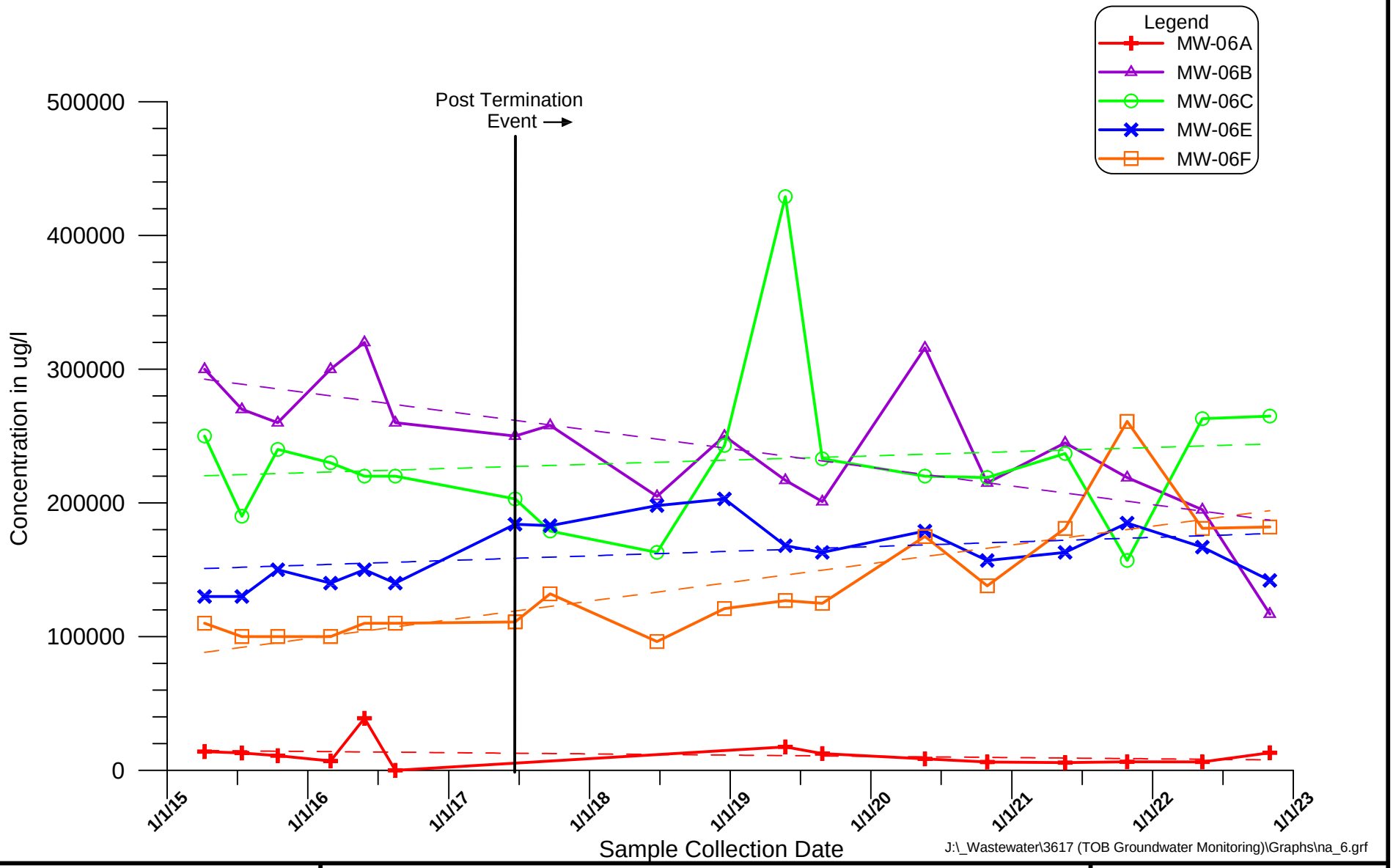
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Wells 5, 8, & 9

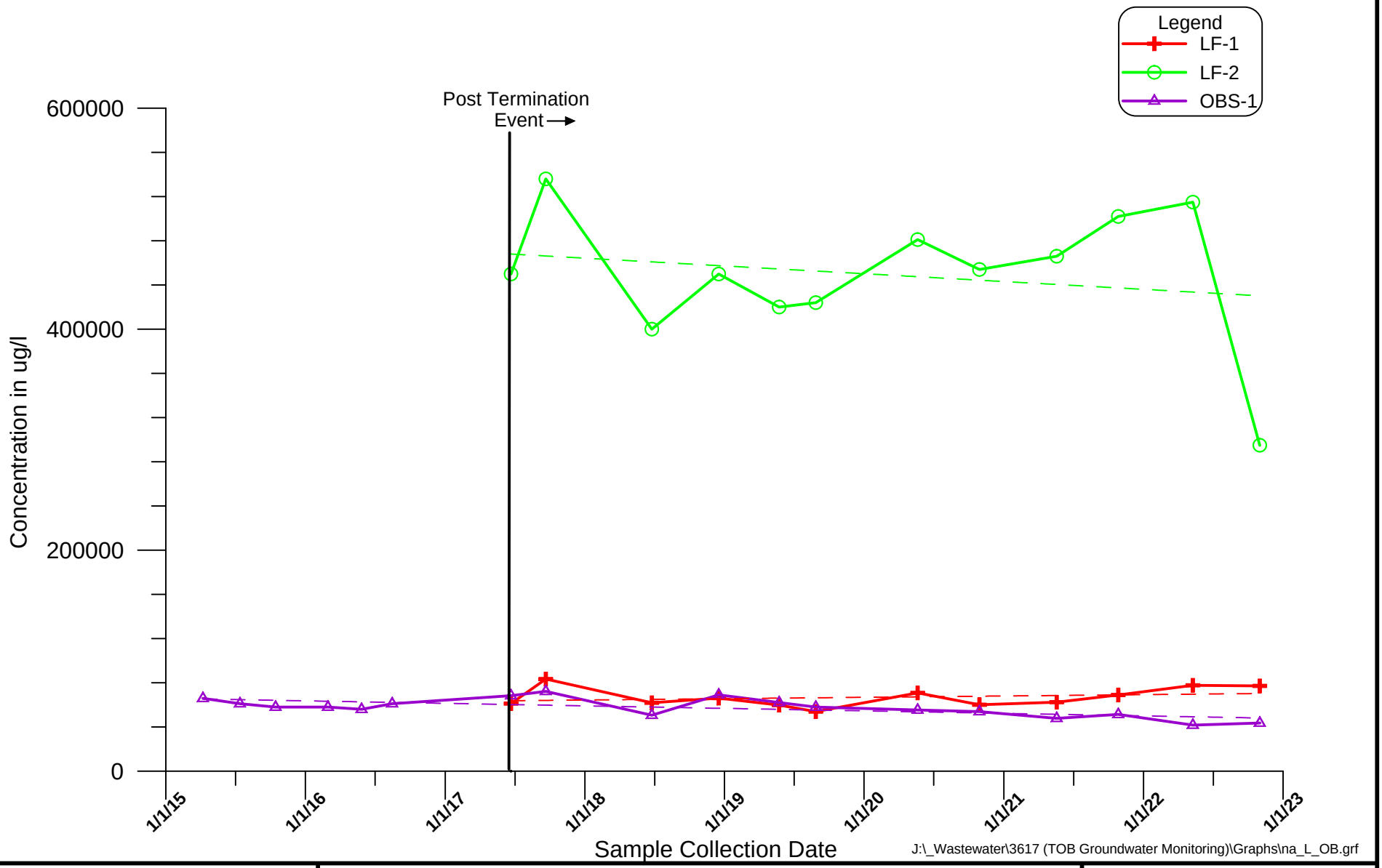
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

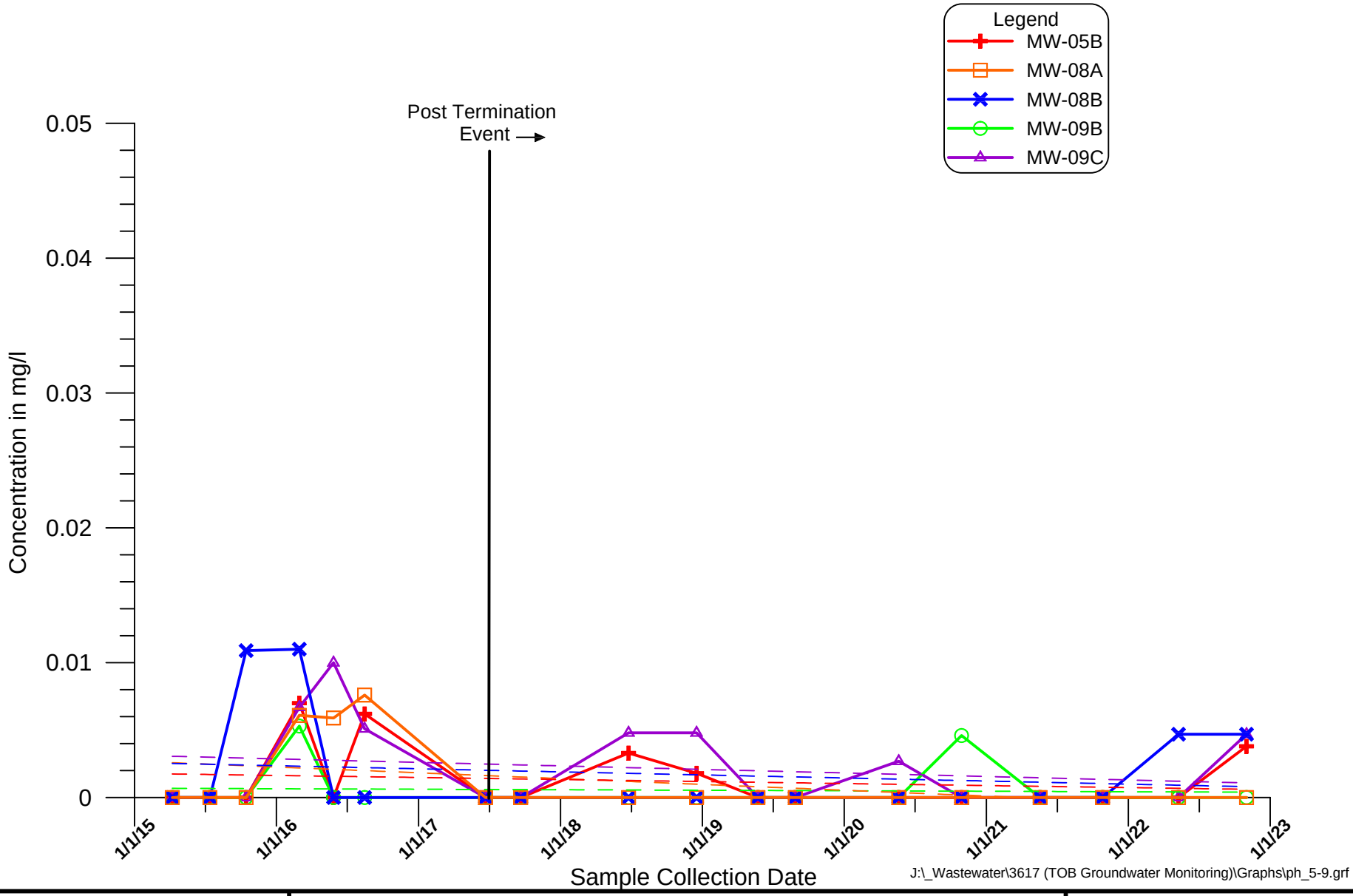
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

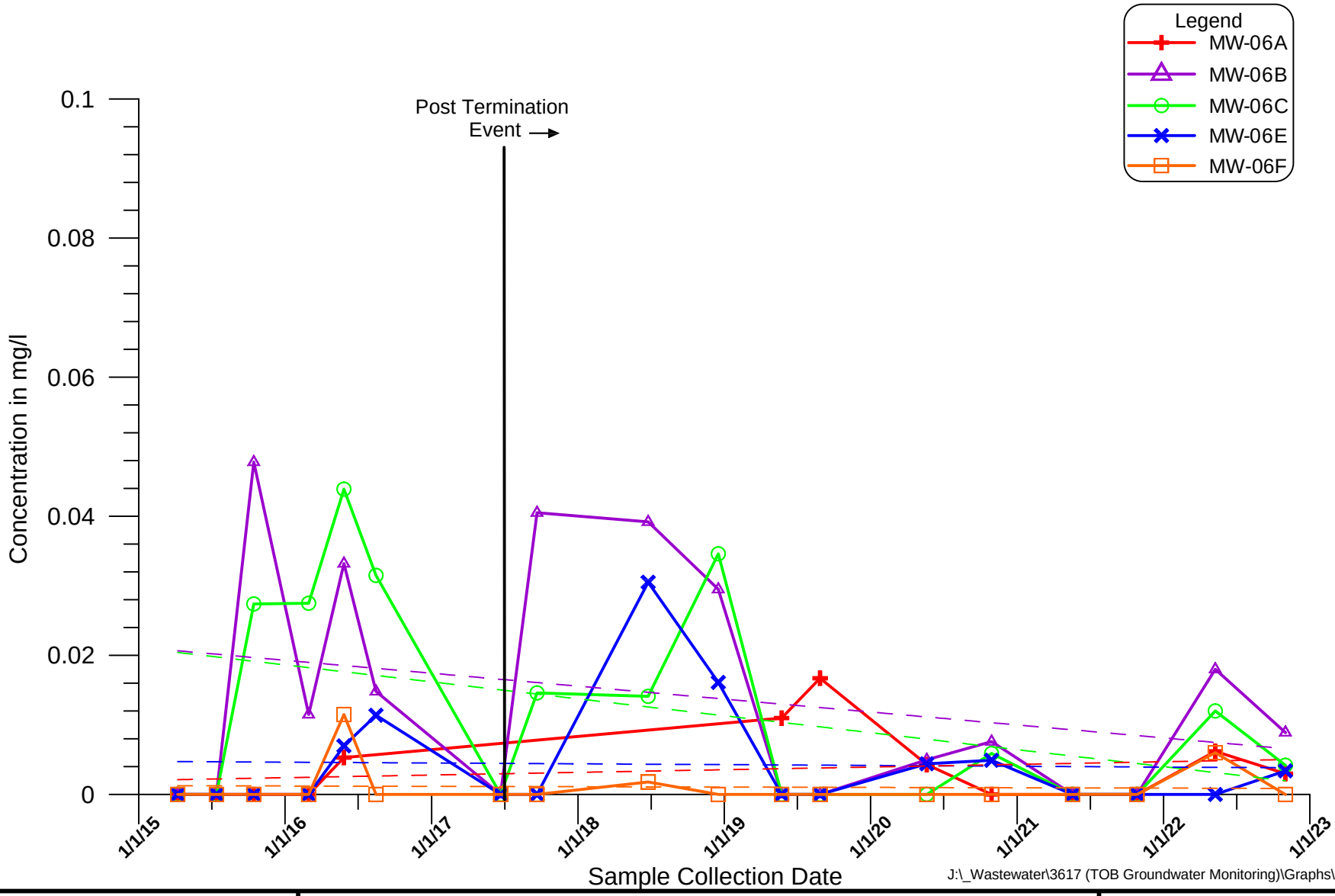
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Wells 5, 8, & 9

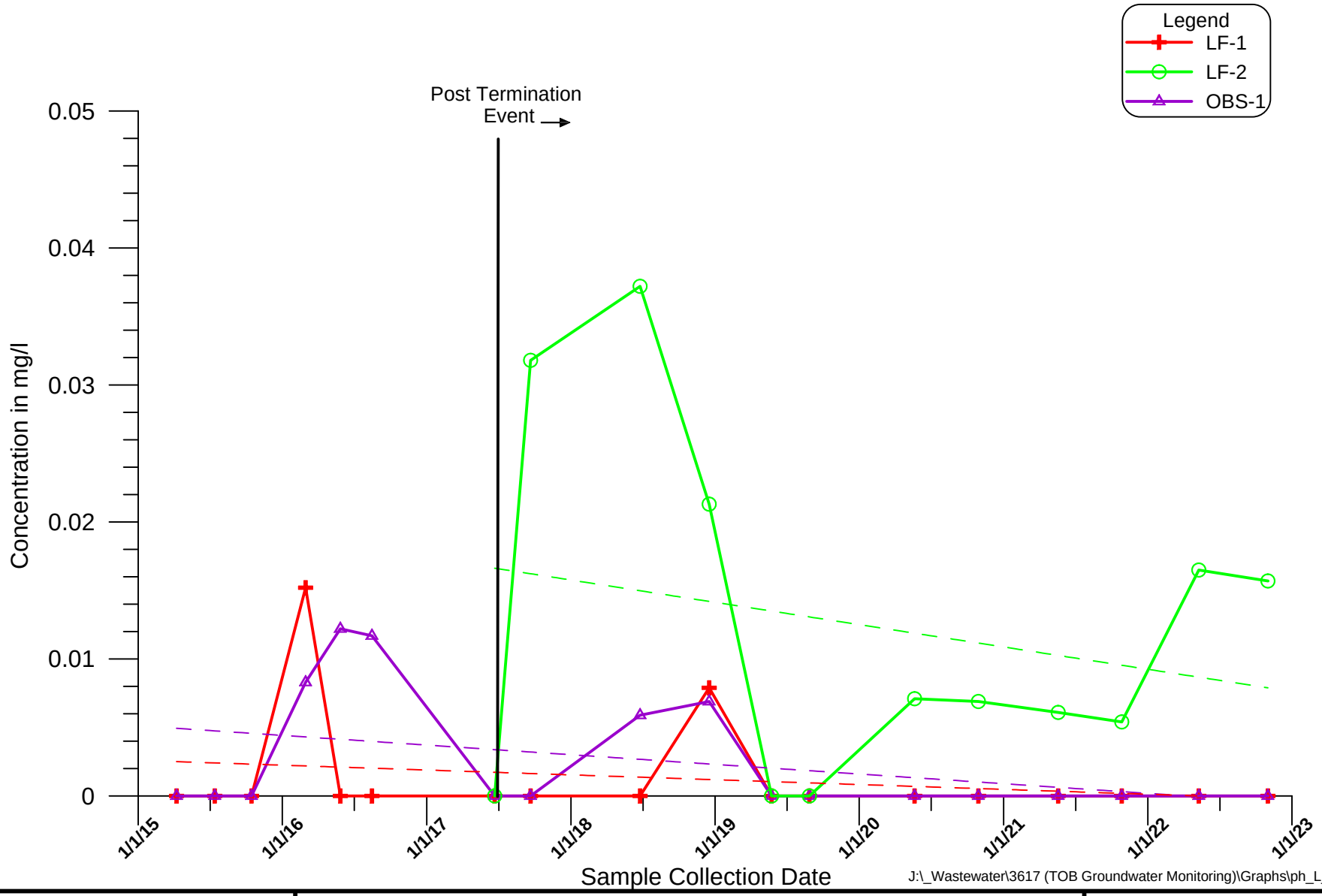
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

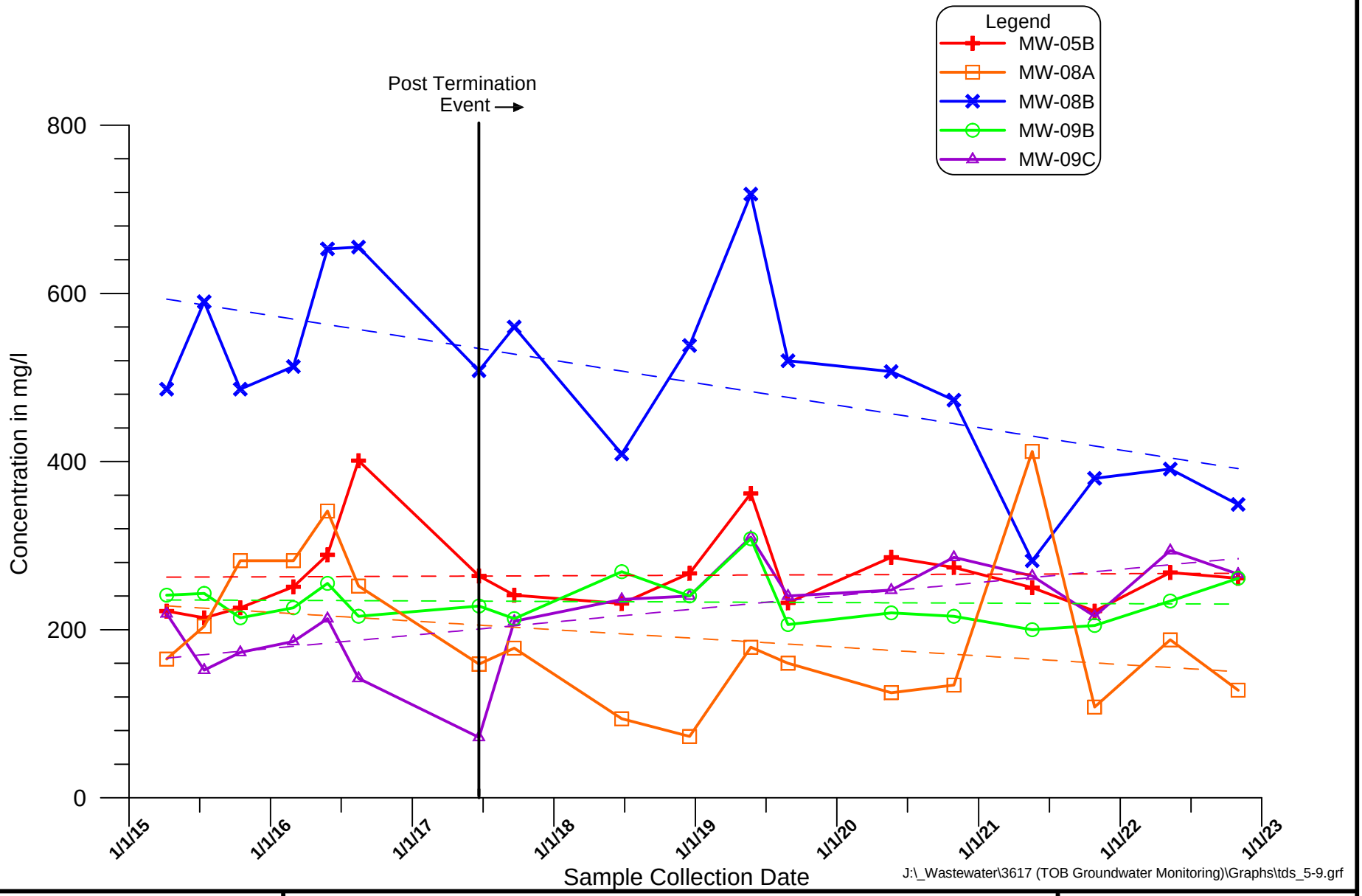
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

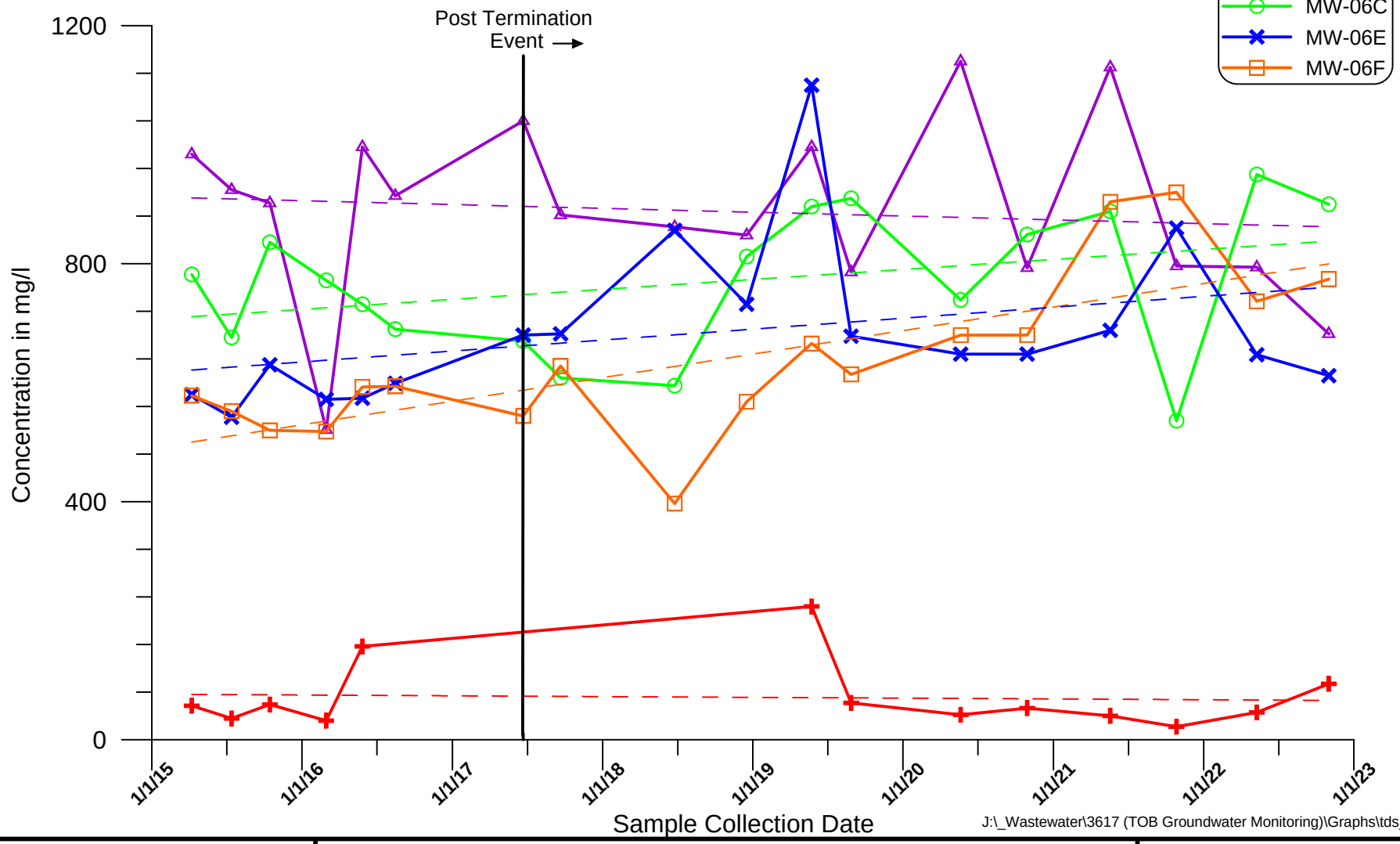
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Wells 5, 8, & 9

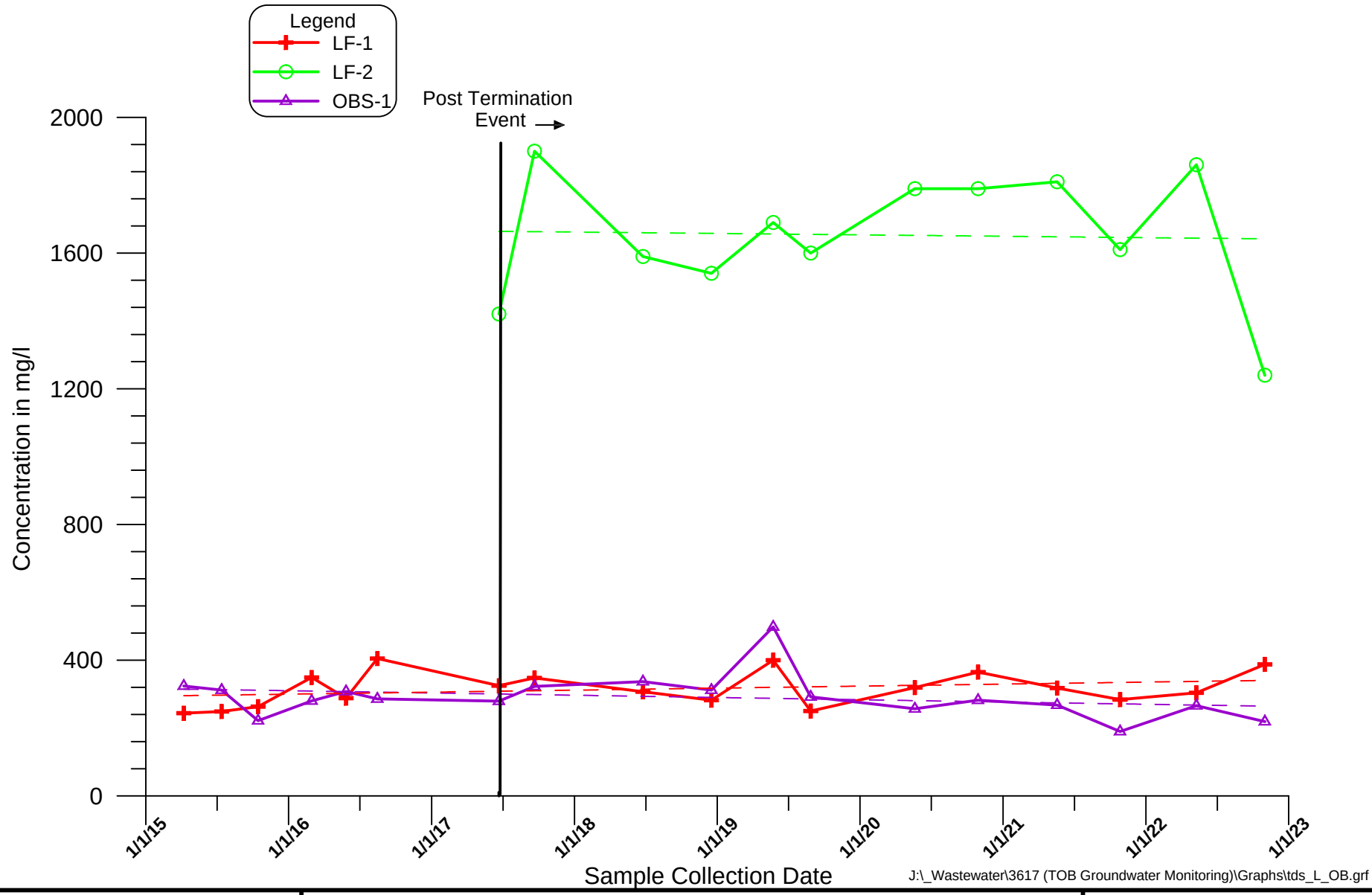
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Well Cluster 6

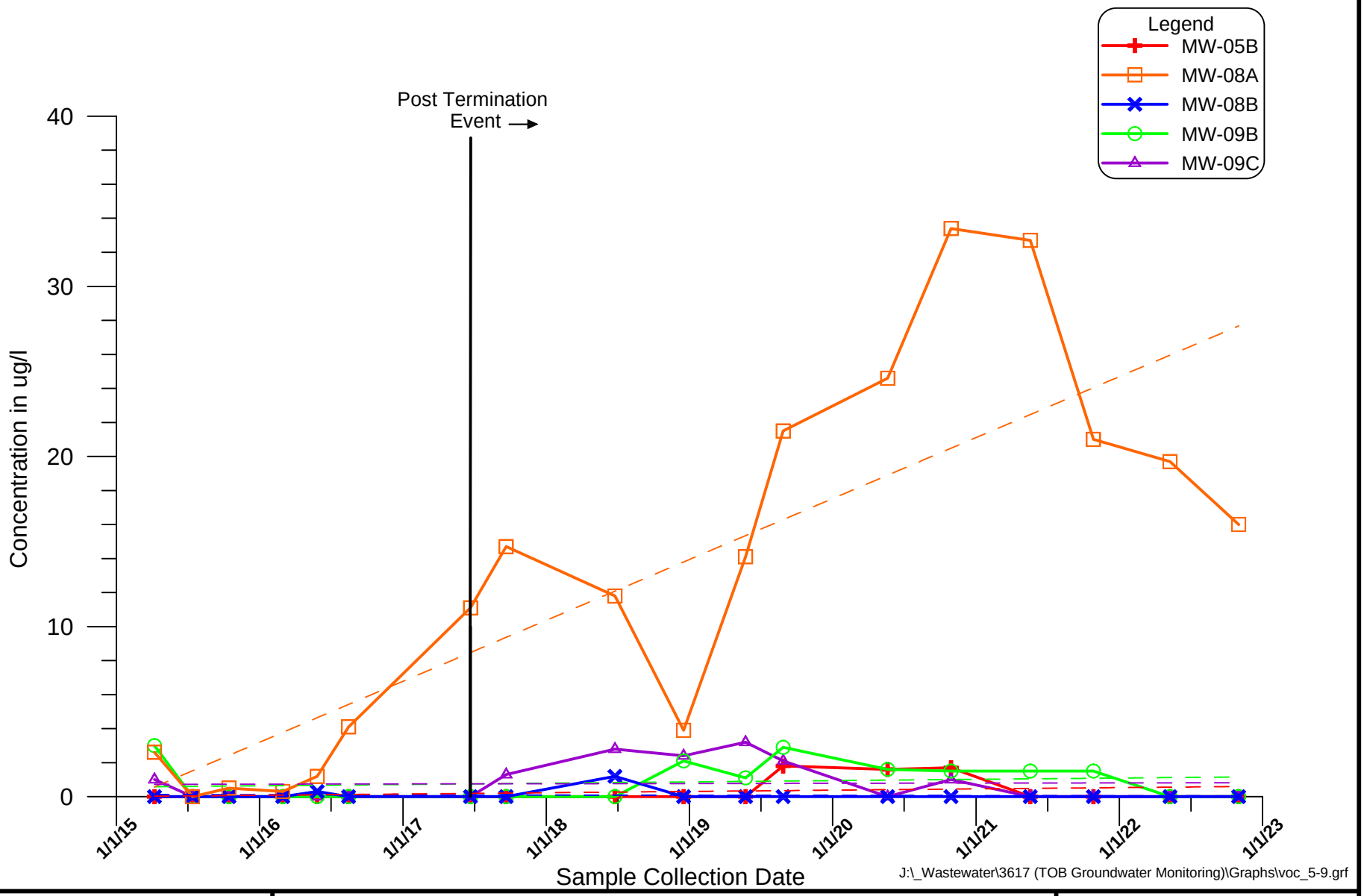
Figure
E



D&B ENGINEERS AND ARCHITECTS

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

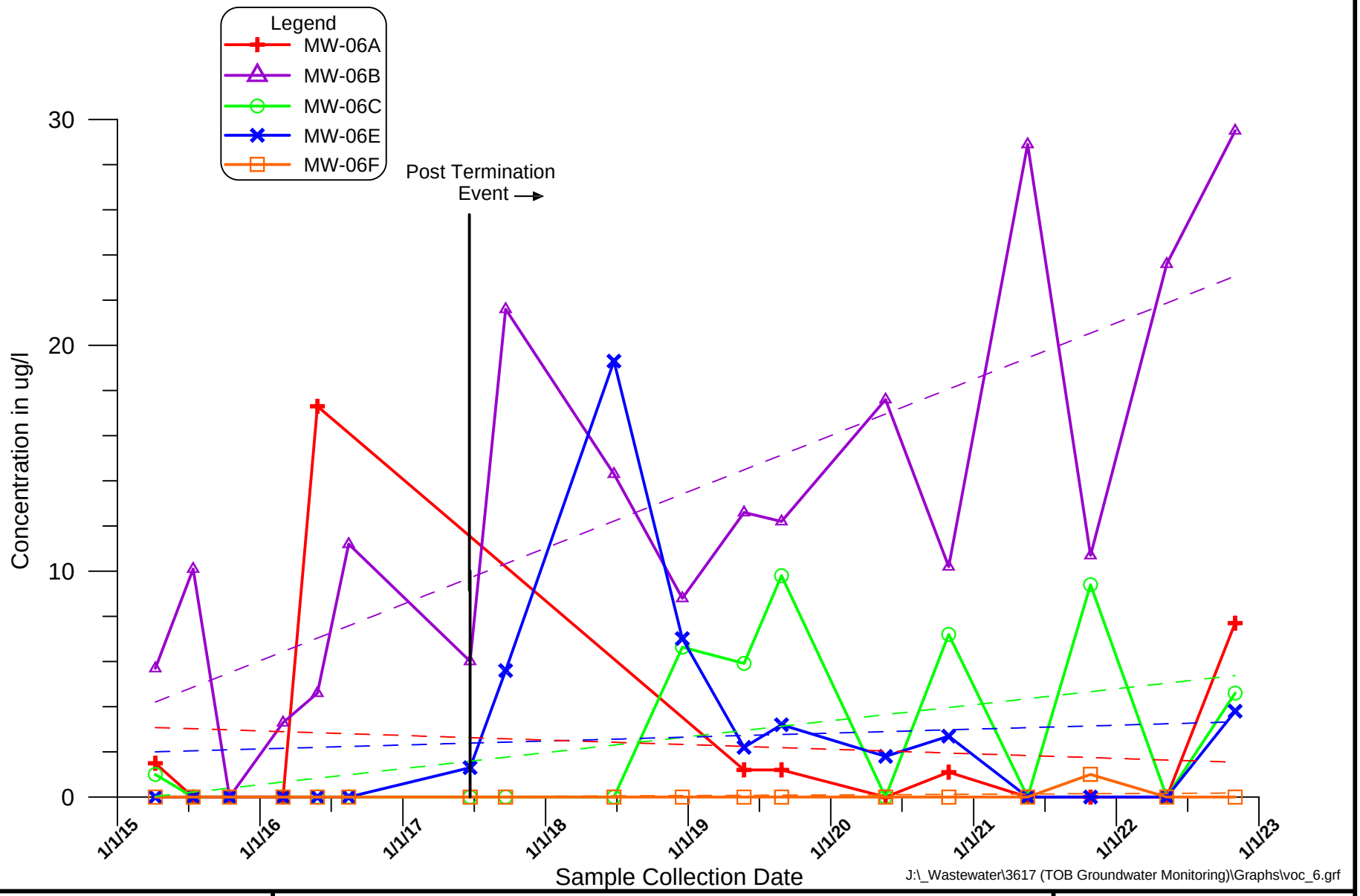
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Wells 5, 8, & 9

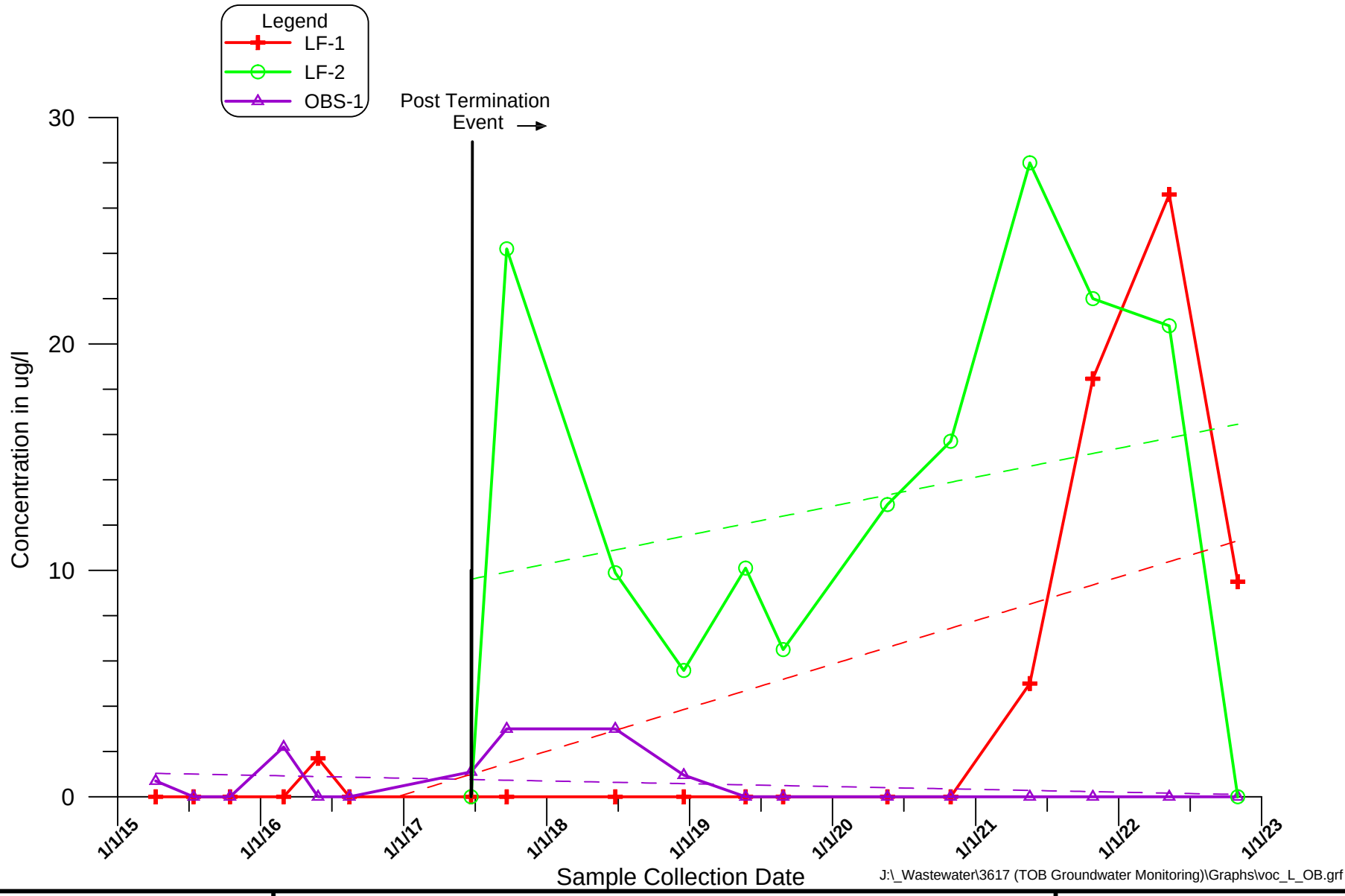
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Well Cluster 6

Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Wells LF-1, LF-2 & OBS-1

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

Units in ug/l	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
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 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
Total Volatile Compounds	--	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

D&B Engineers and Architects, P.C.

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

Units in ug/l	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
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	***57400***	100 U	***1080***	23 J	112	100 U	***21800***	53.1 J	***26600***	100 U	***29300***	***610***
Lead	25	5 U	5 U	***370***	***32***	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	***11200***	11.3 UB	120 J	40.7	***5760 J***	***5220***	153 J	48	134 J	77.2	***665 J***	***513***
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	***61100***	***54500***	***450000***	***404000***	***64000***	***54900***	***250000***	***214000***	***203000***	***176000***	***184000***	***157000***
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

Units in ug/l	Sample ID	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	06/21/2017	06/21/2017	06/22/2017	06/22/2017	06/22/2017	06/22/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
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	***756***	32.9 J	***328***	100 U	***352***	100 U	***752***	100 U	***875***	100 U	***1390***	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	***647***	***540***	***2510 J***	***3090***	77.8 J	60.8	***3190 J***	***2950***
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	***111000***	***91600***	***29900***	***24100***	***125000***	***113000***	***63400***	***52600***	12900	15800	***68400***	***63200***
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

Units in mg/l	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
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	***488***	97.2	***306***	206	***346***	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	***116***	***16.2***	***31.9***	0.42	0.021 UB	0.43	0.19 UB	0.59 J	***8.4 J***
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

Units in ug/l	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
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	***3.8***	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
Total Volatile Compounds	--	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	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
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	***22400***	***19500***	***8220***	***7840***	200 U	20 U	***12300***	***9140***	***3970***	***3580***	***21000***	***19100***
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	***4340***	***4260***	193	184	***5030***	***5270***	68.5	37.3	93.4	83.3	***706***	***640***
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	***83400***	***86400***	***536000***	***535000***	***60700***	***63200***	***258000***	***274000***	***179000***	***189000***	***183000***	***190000***
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

Units in ug/l	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
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	***1110***	***1000***	***3380***	***3480***	187	169	***2780***	***2680***
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	***132000***	***139000***	***35800***	***39000***	***151000***	***162000***	***57700***	***59500***	***63700***	***63300***	***72300***	***72400***
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

Units in mg/l	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
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	***633***	125	***344***	238	***380***	***388***	81.1	***360***	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	***192***	0.22 UB	***137 J***	***18.4***	***44.5***	0.14 UB	0.018 UBJ	0.68 J	0.23 UB	1.3	***20.4***
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	***0.0318***	0.005 U	***0.0405***	***0.0146***	0.0065 UB	0.0016 UB	0.0011 UBJ	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	**6.10**	7.14	6.84	6.99	**4.76**	**4.38**
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	**159**	**16**	**30**	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	Slty. Cloudy, Moderate Odor	Slty. 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	**5.76**	**5.92**	**5.72**	**5.78**	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	**2.0**	<1.0	**3.1**	<1.0	<1.0
Chlorobenzene	5	<1.0	**6.0**	<1.0	**9.4**	<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	**3.2**	<1.0	**3.9**	<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	**8.6**
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	**1.7**
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	**97.1**	**18.0**	**101**	0.49	0.25
Chloride	250	126	241	214	248	**295**	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	**862**	**595**	**856**	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	**0.0033 J**	**0.0392**	**0.0141**	**0.0305**	**0.0018 J**	<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	**7.8**	0.87	**117**
Chloride	250	232	115	96.5	103	78.2	**476**
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	**1,590**
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	**0.0048 J**	**0.0059**	<0.005	**0.0372**

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	**10,600**	**5,730**	**54,600**	**693**	19.0 J
Iron and Manganese	500	**3,676**	**10,645**	**5,808**	**55,145**	**798**	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	**3,620**	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	**57,600**	**205,000**	**163,000**	**198,000**	**96,300**	11,900
Zinc	2,000[GV]	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	**8,360**	**6,730**
Iron and Manganese	500	387	**2,560**	237	**2,454**	**9,960**	**6,887**
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	**331**	**2,520**	144	**2,350**	**1,600**	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	**107,000**	**51,500**	**45,000**	**50,700**	**61,900**	**400,000**
Zinc	2,000[GV]	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	**6.33**	7.32	7.35	6.92	**4.82**	**4.97**
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	**32.2**	1.6	**108**	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	Slty. Cloudy, Moderate Sulfur Odor	Slty. 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	**4.13**	**6.19**	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	**1.2**
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	**117**	**97.3**	**6.6**	0.20	0.14
Chloride	250	137	**296**	**288**	**404**	**376**	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	**848**	**812**	**732**	**568**	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	**0.0018 J**	**0.0295**	**0.0346**	**0.0161**	<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	**3.7**	**40.4**	**10**	**12.3**
Chloride	250	130	126	128	124	118	**461**
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)	**538**	240	240	312	282	**1,540**
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	**0.0048 J**	**0.0069**	**0.0079**	**0.0213**

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	**10,300**	**3,140**	**27,600**	**500**	<100
Iron and Manganese	500	**3,875 J**	**10,350**	**3,195**	**28,045**	**618**	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	**3,860**	50.0	55.4	**445**	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	**63,600**	**250,000**	**243,000**	**203,000**	**121,000**	10,800
Zinc	2,000[GV]	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	**13,000**	**6,490**
Iron and Manganese	500	**1,173 J**	**2,430**	195	**2,625 J**	**15,590**	**6,628**
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	**1,150**	**2,430**	174	**2,550**	**2,590**	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	**160,000**	**59,000**	**65,000**	**69,100**	**66,100**	**450,000**
Zinc	2,000[GV]	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	**1,570**	271	**4,440**	**395**	<20.0
Iron and Manganese	500	**3,740**	**1,593**	321	**4,844**	**510**	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	**3,740**	23.2	49.5	**404**	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	**61,100**	**232,000**	**234,000**	**199,000**	**116,000**	9,880
Zinc	2,000[GV]	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	**6,040**	**3,010**
Iron and Manganese	500	**1,094 J**	**2,350**	167	**2,580**	**8,510**	**3,139**
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	**1,080**	**2,350**	167	**2,530**	**2,470**	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	**155,000**	**56,900**	**62,200**	**66,500**	**63,800**	**437,000**
Zinc	2,000[GV]	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.

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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	Sample ID Sample Date Type:	LF-1 05/24/19 Total	LF-1 05/24/19 Dissolved	LF-2 05/23/19 Total	LF-2 05/23/19 Dissolved	MW-5B 05/22/19 Total	MW-5B 05/22/19 Dissolved	MW-6A 05/23/19 Total	MW-6A 05/23/19 Dissolved	MW-6B 05/23/19 Total	MW-6B 05/23/19 Dissolved	MW-6C 05/23/19 Total	MW-6C 05/23/19 Dissolved	MW-6E 05/23/19 Total
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	212
Calcium	--	13100	13000	29800	29100	13000	12700	3130	3000	18000	17200	52700	24500	33300
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	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	25 U
Iron	300 #	***9520***	***8970 J***	***7280***	***7180 J***	25.4 UB	20 UJ	29.4 UB	13.2 J	***10800***	***9570 J***	***6700***	***3070 J***	***16200***
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	10100	9990	20400	19500	5810	5660	3110	2930	14500	13600	21000	9730	15500
Manganese	300 #	***1930***	***1870***	***162***	***151***	***3690***	***3530***	21.4	17.4	***53.3***	***47.2***	***131***	***61.3***	***479***
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	0.2 U
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	15.2 J
Potassium	--	16800	16000	132000	128000	11300	10800	3580 J	3200 J	92200	87000	139000	63000	39200
Sodium	20000	***59700***	***58700***	***420000***	***411000***	***62900***	***61200***	17600	16100	***217000***	***207000***	***429000***	***207000***	***168000***
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	16.4 J

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 #	***16000 J***	137	99.6 J	48.6 UB	6 J	32.6 UB	***8 J***	38.2 UB	***12.9 J***	35.7 UB	20 UJ	65.5 UB	***39.8 J***
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 #	***467***	119	107	75.1	66.4	***1120***	***1110***	***2630***	***2440***	156	140	***2430***	***2330***
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	***166000***	***127000***	***123000***	***41700***	***42000***	***150000***	***151000***	***52700***	***52300***	***65100***	***62900***	***62100***	***60500***
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 / Units in mg/l	NYSDEC Class GA Standard or Guidance Value	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
LEACHATE INDICATORS													
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	***383***	94.8	20.5	231	228	***325***	***374***	47.4	***294***	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	***11.7***	***145***	0.10 U	1.1	***96.5***	***66.5***	***36.0***	***3.3***	0.72	0.32 UB	1.7	***2.2***
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	***0.011***	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

Units in mg/l	Sample ID / Sample Date	OBS-1 05/22/19
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	19.7
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

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

Units in ug/l	Sample ID Sample Date	LF-1 08/28/19	LF-2 08/28/19	MW-05B 08/26/19	MW-06A 08/27/19	MW-06B 08/27/19	MW-06C 08/27/19	MW-06E 08/27/19	MW-06F 08/27/19
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
1,1-Dichloroethane	5	1 U	1 U	1 U	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
1,2-Dichlorobenzene	3	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
1,2-Dichloropropane	1	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
1,4-Dichlorobenzene	3	1 U	2.3	1 U	1 U	2.7	2.1	1.1	1 U
Benzene	1	1 U	***2.8 J***	1 U	1 U	***1.7***	***1.5***	1 U	1 U
Bromodichloromethane	50	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
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1.4	1 U	1 U	***5.7***	4.2	2.1	1 U
Chloroethane	5	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
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	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
Dichlorodifluoromethane	5	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
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	2.1	2	1 U	1 U
Methylene Chloride	5	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
tert-Butylbenzene	5	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
Toluene	5	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
Trichloroethylene (TCE)	5	1 U	1 U	1.8	1.2	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
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	6.5	1.8	1.2	12.2	9.8	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l Sample ID Sample Date		MW-08A 08/26/19	MW-08B 08/26/19	MW-09B 08/26/19	MW-09C 08/26/19	OBS-1 08/26/19
VOLATILE COMPOUNDS	NYSDEC Class GA Standard or Guidance Value					
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	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
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	***15.5***	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	3.5	1 U	1 U	1 U	1 U
Toluene	5	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
Trichloroethylene (TCE)	5	2.5	1 U	2.9	2.1	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	21.5	ND	2.9	2.1	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

Units in ug/l	Sample ID / Sample Date / Type:	LF-1 08/28/19		LF-2 08/28/19		MW-05B 08/26/19		MW-06A 08/27/19		MW-06B 08/27/19		MW-06C 08/27/19	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	74.1 J	79.7 J	47.3 J	49.2 J	37.1 J	39.6 J	31.5 J	33.4 J	51.2 J	53.4 J	22.2 J	23.2 J
Calcium	--	11300	12100	31600	32300	13000	13800	2040	2130	18000	18500	20300	20800
Chromium	50	10 U	10 U	9.6 J	9 J	10 U	10 U	1.5 J	10 U	10 U	10 U	10 U	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*	***11000***	***11500***	***7400***	***7540***	100 U	20 U	151 UB	146	***10500***	***10600***	***3490***	***3520***
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	9330	9930	21300	21500	5670	6050	2080	2160	14500	14700	12600	12800
Manganese	300*	***2120***	***2240***	***157***	***160***	***3410***	***3610***	22.8	21.7	***46.6***	***45.8***	***51.7***	***52.6***
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	6.6 J	7.5 J	17 J	17.1 J	6.6 J	8 J	6.8 J	7.8 J	6.8 J	7.5 J	11.4 J	12.1 J
Potassium	--	16300	17500	133000	145000	11200	12100	2460 J	2680 J	89200	95800	81500	87500
Sodium	20000	***53900***	***59100***	***424000***	***451000***	***61000***	***65900***	12500	13400	***201000***	***214000***	***233000***	***248000***
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 UB	20 UB	20 U	20 U	20 U	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	
*	Iron and magnesium sum is 500

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

Units in ug/l	Sample ID	MW-06E		MW-06F		MW-08A		MW-08B		MW-09B		MW-09C	
	Sample Date	08/27/19		08/27/19		08/26/19		08/26/19		08/26/19		08/26/19	
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	200 U	200 U	138 J	145 J	200 U	200 U	200 U	100 J	200 U	200 U	200 U	200 U
Barium	1000	207	228	207	227	52 J	53.7 J	123 J	130 J	98.3 J	107 J	57 J	62.3 J
Calcium	--	32100	34900	36200	39200	11900	12000	24600	26000	14000	15100	8630	9290
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	6.7 J	25 U	7.1 J	12.2 J	25 U	25 U	5.6 J	25 U	25 U	25 U	25 U	25 U
Iron	300*	***17800***	***19000***	100 UB	100	100 U	20 U	100 UB	***77.1***	100 U	20 UB	100 UB	20 U
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	15000	16200	14100	15300	4730	4840	7790	8200	5800	6290	9050	9780
Manganese	300*	***438***	***475***	122	120	82.8	66.6	***1050***	***1100***	***3340***	***3560***	181	195
Mercury	0.7	0.2 U	0.2 U	0.32	0.2 U	0.2 U	0.11 J	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	14.1 J	15.5 J	26.6 J	29.9 J	6.4 J	7.1 J	20.8 J	21.8 J	40 U	40 U	4.5 J	5.8 J
Potassium	--	36200	40500	8790	9510	5780	6030	11500	12300	9830	10900	11800	13200
Sodium	20000	***163000***	***183000***	***125000***	***139000***	***33800***	***35200***	***148000***	***158000***	***54100***	***59600***	***62600***	***69200***
Zinc	2000	20 UB	20 UB	26.8 UB	29.2 UB	20 UB	20 UB	50.1	51.3 UB	20 U	20 U	20 U	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	
*	Iron and magnesium sum is 500

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

Units in ug/l Sample ID Sample Date Type:		OBS-1 08/26/19 Total	OBS-1 08/26/19 Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value		
Aluminum	--	200 U	168 J
Barium	1000	51.8 J	89.1 J
Calcium	--	17500	18600
Chromium	50	10 U	10 U
Copper	200	25 U	25 U
Iron	300*	100 UB	62.8 UB
Lead	25	5 U	5 U
Magnesium	35000	13500	14200
Manganese	300*	***2620***	***2770***
Mercury	0.7	0.2 U	0.2 U
Nickel	100	40 U	5.2 J
Potassium	--	23200	24900
Sodium	20000	***58000***	***62900***
Zinc	2000	20 U	20 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	
*	Iron and magnesium sum is 500

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

Units in mg/l	Sample ID Sample Date	LF-1 08/28/19	LF-2 08/28/19	MW-05B 08/26/19	MW-06A 08/27/19	MW-06B 08/27/19	MW-06C 08/27/19	MW-06E 08/27/19	MW-06F 08/27/19	MW-08A 08/26/19	MW-08B 08/26/19
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value										
Alkalinity, Total	--	109	1170	26.3 J	4.1 J	726 J	691 J	172 J	1 U	12.8 J	10.6 J
Alkalinity,Bicarbonate	--	109	1170	26.3 J	4.1 J	726 J	691 J	172 J	1 U	12.8 J	10.6 J
Alkalinity,Carbonate	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloride	250	59.1	***403***	89.7	18.5	225	***291***	***339***	***315***	58.6	***280***
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
Hardness	--	70.0	140	45.0	10.0	100	93.3	200	133	40.0	73.3
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	***11.9***	***147***	0.1 UB	0.55	***119***	***111***	***33.4***	0.16 UB	0.1 U	0.1 UB
Nitrogen, Kjeldahl, Total	--	12.6 J	137 J	0.1 UJ	1.2 J	111 J	98.6 J	34.6 J	1.1 J	0.076 UJB	0.057 UJB
Nitrate	10	0.05 U	0.05 U	5.0	0.85	0.05 UJ	0.05 UJ	2.3 J	3.7	1.8	1.4
Nitrite	1	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 UB	0.005 UB	0.005 U	**0.0167**	0.005 UB	0.005 U	0.005 UB	0.005 U	0.005 U	0.005 U
Sulfate	250	45.7	5 U	28.8	14.2	5 U	5.8	41.1	5 U	36.1	38.0
Total Dissolved Solids	--	250	1600	232	62.0 J	786 J	910 J	678 J	614 J	160	520

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

Units in mg/l	Sample ID Sample Date	MW-09B 08/26/19	MW-09C 08/26/19	OBS-1 08/26/19
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value			
Alkalinity, Total	–	27.4 J	42.8 J	153 J
Alkalinity,Bicarbonate	–	27.4 J	42.8 J	153 J
Alkalinity,Carbonate	–	1 U	1 U	1 U
Chloride	250	88.8	92.8	82.4
Cyanide	0.2	0.01 U	0.01 U	0.01 U
Hardness	–	50.0	45.0	86.7
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.45	1.4	***16.9***
Nitrogen, Kjeldahl, Total	–	0.45 UJB	1.4 J	15.6 J
Nitrate	10	3.8	0.42	0.52
Nitrite	1	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	0.005 U	0.005 U
Sulfate	250	23.3	26.1	40.2
Total Dissolved Solids	--	206	240	292

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

Units in ug/l	Sample ID / Sample Date	LF-1 5/20/20	LF-2 5/20/20	MW_05B 5/18/20	MW_06A 5/19/20	MW_06B 5/19/20	MW_06C 5/19/20	MW_06E 5/19/20	MW_06F 5/19/20	MW_08A 5/18/20	MW_08B 5/18/20	MW_09B 5/18/20	MW_09C 5/18/20	OBS_1 5/18/20
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	1.8	1 U	1 U	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	***3.1***	1 U	1 U	***3.6***	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	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	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	1 U
Chlorobenzene	5	1 U	1.8	1 U	1 U	***8.9***	1 U	1.8	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	***17.2***	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	4.9	1 U	1 U	2.1	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	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	4.5	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	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	1.6	1 U	1 U	1 U	1 U	1 U	2.9	1 U	1.6	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	1 U
Xylenes, Total	5	3 U	1.3 J	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	12.9	1.6	ND	17.6	ND	1.8	ND	24.6	ND	1.6	ND	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	Sample ID	LF-1	LF-1	LF-2	LF-2	MW_05B	MW_05B	MW_06A	MW_06A	MW_06B	MW_06B	MW_06C	MW_06C	MW_06E
	Sample Date	5/20/20	5/20/20	5/20/20	5/20/20	5/18/20	5/18/20	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	102 J	96.7 J	52.8 J	51.9 J	49.8 J	43.2 J	22.3 J	20.5 J	61.5 J	58.2 J	29.7 J	26.8 J	193 J
Calcium	--	15300	15200	34900	35000	15800	15100	1400	1350	20800	20400	47200	46300	30300
Chromium	50	10 U	10 U	13	12.8	10 U	10 U	10 U	6.1 J	11.7	6.8 J	10 U	10 U	10 U
Copper	200	25 U	25 U	11.7 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	***14600***	***14300***	***9020***	***8820***	100 U	20 U	40.1 UB	103 UB	***12800***	***12200***	***5220***	***4810***	***12600***
Lead	25	5 U	5 U	3.6 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	12500	12600	25200	25800	6520	6580	1470	1450	14600	14600	11300	11700	14800
Manganese	300 #	***2670***	***2630***	***174***	***178***	***3890***	***3880***	8.9 UB	10.5 UB	***55.6***	***55***	***133***	***141***	***401***
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	0.21	0.15 J	0.2 U	0.2 U
Nickel	100	4 J	4 J	14.7 J	14.4 J	2.9 J	2.3 J	40 U	8.5 J	16.8 J	12.7 J	7.9 J	7.3 J	9 J
Potassium	--	17800	16300	133000	132000	10900	8890	5000 U	1990 J	118000	108000	28600	26100	28400
Sodium	20000	***70900***	***71800***	***481000***	***488000***	***77200***	***71500***	8650	7750	***316000***	***313000***	***220000***	***207000***	***179000***
Zinc	2000	20 U	3.6 UB	20 U	2.1 UB	20 U	20 U	20 U	23.3	20 U	2.2 UB	20 U	3 UB	17.2 J

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

D&B Engineers and Architects, P.C.

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

Sample ID		MW_06E	MW_06F	MW_06F	MW_08A	MW_08A	MW_08B	MW_08B	MW_09B	MW_09B	MW_09C	MW_09C	OBS_1	OBS_1
Sample Date		5/19/20	5/19/20	5/19/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20
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 U	191 J	166 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	184 J	248	235	64 J	52.6 J	118 J	103 J	96.8 J	90.8 J	65.2 J	60.9 J	48.2 J	46.4 J
Calcium	--	29100	42800	43400	11200	9640	21600	20500	13300	13500	10200	10200	16100	16000
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	3.9 J	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	***12000***	79.5 UB	86.8 UB	100 U	20 U	100 U	20 U	100 U	20 U	20.1 UB	10.2 UB	46.2 UB	38 UB
Lead	25	5 U	2.8 J	5.5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	14200	16400	17500	4900	4790	6680	6700	5570	5980	8090	8410	10600	10900
Manganese	300 #	***381***	114	121	82.9	84.2	***910***	***914***	***3160***	***3320***	192	202	***2470***	***2560***
Mercury	0.7	0.2 U	0.2 U	0.26	0.2 U	0.2 U	0.37	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	7.7 J	24.4 J	24.8 J	2.9 J	2.6 J	17.4 J	15.6 J	40 U	40 U	3.9 J	1.9 J	2.8 J	1.9 J
Potassium	--	25700	7790	7130	6200	4280 J	10000	8300	8940	8050	11400	10600	20600	19800
Sodium	20000	***180000***	***175000***	***171000***	***38600***	***30600***	***165000***	***150000***	***56000***	***55300***	***70700***	***68500***	***55300***	***54600***
Zinc	2000	14.3 UB	26.4	25.8	13.6 J	12.1 UB	54.2	51.3	20 U	4.3 UB	20 U	4.4 UB	20 U	2.9 UB

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

D&B Engineers and Architects, P.C.

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

Units in mg/l	Sample ID / Sample Date	LF-1 05/20/20	LF-2 05/20/20	MW_05B 05/18/20	MW_06A 05/19/20	MW_06B 05/19/20	MW_06C 05/19/20	MW_06E 05/19/20	MW_06F 05/19/20	MW_08A 05/18/20	MW_08B 05/18/20	MW_09B 05/18/20	MW_09C 05/18/20	OBS_1 05/18/20
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	116	1320	32.2	4.3	1030	390	144	1 U	14	5.8	33.8	44.9	160
Alkalinity,Bicarbonate	---	116	1320	32.2	4.3	1030	390	144	1 U	14	5.8	33.8	44.9	160
Alkalinity,Carbonate	---	1 U	5 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	93.5	***429***	93.9	9.6	***270***	186	***315***	***370***	41	***256***	79.9	92.1	65.9
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	0.0038 J	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	---	110	210	70	10	130	170	160	100	50	70	70	50	70
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	***13.1***	***48.7***	0.45 UB	0.44 UB	***136***	***15.8***	***22.7***	0.39 UB	0.35 UB	0.51 UB	1.3 UB	2.8 UB	***15.3***
Nitrogen, Kjeldahl, Total	---	13.1	168	0.2 UB	0.73 UB	172	24.1	25.2	0.1 U	0.1 U	0.17 UB	0.16 UB	2.1 UB	17.4
Nitrate	10	0.05 U	0.05 U	5.8 J	0.8	0.05 U	0.05 U	3.3	4.6	2.5 J	2.1 J	5.1 J	0.84 J	0.52 J
Nitrite	1	0.05 U	0.05 U	0.065	0.05 U	0.05 U	0.05 U	0.064	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	***0.007 J***	0.005 U	***0.004 J***	***0.005 J***	0.005 U	***0.004 J***	0.005 U	0.005 U	0.005 U	0.005 U	***0.003 J***	0.005 U
Sulfate	250	50	5 U	25.6	7.4	5 U	38.2	44	5 U	32.2	38.4	19.6	22.8	30.8
Total Dissolved Solids	---	319	1790	286	42	1140	739	648	680	125	507	220	247	257

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	

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	Sample ID Sample Date	LF-1 10/29/20	LF-2 10/29/20	MW-05B 10/27/20	MW-06A 10/28/20	MW-06B 10/28/20	MW-06C 10/28/20	MW-06E 10/28/20	MW-06F 10/28/20	MW-08A 10/27/20	MW-08B 10/27/20	MW-09B 10/27/20	MW-09C 10/27/20	OBS-1 10/27/20
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	2.1	1 U	1 U	2.8	1.5	1.2	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	***3.6***	1 U	1 U	***1.2***	***1.4***	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	1.7	1 U	1 U	4.5	2.9	1.5	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	***21.2***	1 U	1 U	1 U	1 U
Dibromochloromethane	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
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	***5.5***	1 U	1 U	1.7	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	***8.4***	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	1.7	1.1	1 U	1 U	1 U	1 U	3.8	1 U	1.5	1	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	2.8 J	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	15.7	1.7	1.1	10.2	7.2	2.7	ND	33.4	ND	1.5	1	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	Sample ID Sample Date Type:	LF-1 10/29/20 Total	LF-1 10/29/20 Dissolved	LF-2 10/29/20 Total	LF-2 10/29/20 Dissolved	MW-05B 10/27/20 Total	MW-05B 10/27/20 Dissolved	MW-06A 10/28/20 Total	MW-06A 10/28/20 Dissolved	MW-06B 10/28/20 Total	MW-06B 10/28/20 Dissolved	MW-06C 10/28/20 Total	MW-06C 10/28/20 Dissolved	MW-06E 10/28/20 Total	MW-06E 10/28/20 Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	47.8 J	200 U	200 U	200 U	200 U	200 U
Barium	1000	114 J	96.3 J	58 J	46.3 J	41.2 J	42.6 J	19.3 J	18.9 J	39.2 J	42.5 J	24.3 J	27.2 J	153 J	158 J
Calcium	--	17000	16500	39200	37700	12900	13500	1280	1250	13500	14400	30600	33800	23200	24000
Chromium	50	2.3 J	10 U	14.6	11.7	2.1 J	10 U	10 U	10 U	3.9 J	3.9 J	3.1 J	4.1 J	2.4 J	2.1 J
Copper	200	8 J	25 U	25 U	5.7 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	***19700***	***2290***	***9810***	***4920***	23.3 UB	20 U	198 UB	197 UB	***8870***	***9350***	***3780***	***4160***	***12100***	***12400***
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	5 U
Magnesium	35000	14600	14100	28800	27000	5310	5530	1270	1230	11100	11900	11600	12800	12300	12700
Manganese	300 #	***3050***	***2950***	***177***	***171***	***3250***	***3310***	10.2 UB	10.1	***40.5***	***41.8***	***76.4***	***84.7***	***309***	***316***
Mercury	0.7	0.17 UB	0.2 U	0.23 UB	0.12 UB	0.2 UB	0.12 UB	0.2 UB	0.11 UB	0.2 U	0.2 U	0.18 UB	0.2 U	0.2 U	0.11 UB
Nickel	100	10 J	8.8 J	20.9 J	19.8 J	11.4 J	9.8 J	5.8 J	5.4 J	12.7 J	14.3 J	12.3 J	15.1 J	15.1 J	15.5 J
Potassium	--	18800	18300	145000	137000	10600	10400	1450 J	1440 J	84700	87400	66800	70100	33200	33500
Sodium	20000	***60100***	***58400***	***454000***	***434000***	***64900***	***70200***	6220	6000	***215000***	***237000***	***219000***	***248000***	***157000***	***166000***
Zinc	2000	5 J	20 U	20 U	20 U	20 U	20 U	11 J	5.4 UB	20 U	20 U	20 U	20 U	12.4 J	10.1 UB

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 value
UB	Non-detect based on blank results
--	No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Sample ID		MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		10/28/20	10/28/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20
Type:		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	--	177 J	169 J	41.4 J	200 U	38 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	228	250	59.9 J	67.5 J	94 J	97.5 J	81.1 J	87.2 J	63.6 J	68.5 J	43.5 J	47 J
Calcium	--	40200	43800	10700	12600	20600	21200	11400	12300	10600	11300	14900	16100
Chromium	50	1.5 J	1.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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 #	91.7 UB	80.2 UB	100 U	20 U	100 U	20 U	8.3 UB	20 U	23.4 UB	9.1 UB	34 UB	30
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	15500	16800	5320	5790	6180	6390	4850	5250	8250	8900	10100	10900
Manganese	300 #	114	124	91.8	91.8	***851***	***872***	***3010***	***3200***	215	229	***2520***	***2710***
Mercury	0.7	0.37 UB	0.11 UB	0.13 UB	0.2 U	0.18 UB	0.1 UB	0.13 UB	0.2 U	0.16 UB	0.1 UB	0.2 U	0.2 U
Nickel	100	29.2 J	33.3 J	7.3 J	8.5 J	19.8 J	21.2 J	40 U	40 U	6.3 J	6.3 J	5.8 J	6.3 J
Potassium	--	9510	9750	5220	5610	11100	10900	8770	8990	12600	12700	22200	23100
Sodium	20000	***138000***	***155000***	***21800***	***26400***	***136000***	***147000***	***46400***	***52200***	***62800***	***70100***	***53900***	***60500***
Zinc	2000	26.4	27 UB	9.6 J	11.1 UB	41.1	42.9 UB	20 U	20 U	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 value
UB	Non-detect based on blank results
--	No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Sample ID Sample Date Units in mg/l		LF-1 10/29/20	LF-2 10/29/20	MW-05B 10/27/20	MW-06A 10/28/20	MW-06B 10/28/20	MW-06C 10/28/20	MW-06E 10/28/20	MW-06F 10/28/20	MW-08A 10/27/20	MW-08B 10/27/20	MW-09B 10/27/20	MW-09C 10/27/20	OBS-1 10/27/20
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	123	1380	39.0	3.2	676	603	145	1.0 U	12.7	9.9	31.6	48.3	162
Alkalinity,Bicarbonate	---	123	--	39.0	3.2	676	603	145	1.0 U	12.7	9.9	31.6	48.3	162
Alkalinity,Carbonate	---	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	1.0 U	1.0 U
Chloride	250	98.0	***460***	89.5	7.6	230	248	***308***	***358***	41.9	***267***	74.8	114	75.7
Cyanide	0.2	0.004 J	0.0021 J	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	0.0026 J	0.01 U
Hardness	---	103	216	54.1	8.43	79.4	124	109	164	48.6	76.9	48.4	60.4	78.8
Hexavalent Chromium	0.05	0.020 U	0.020 U	0.020 U	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ
Nitrogen, Ammonia	2	***17.3***	***170***	0.10 U	0.39	***99.3***	***79.5***	***31.1***	0.34	0.083 J	0.10 U	0.43	1.8	***16.2***
Nitrogen, Kjeldahl, Total	---	17.1	149	0.10 U	1.8	121	86.4	35.1	0.10 U	0.10 U	0.17	0.10 U	2.1	18.5
Nitrate	10	0.050 U	0.050 U	5.1	0.26	0.050 U	0.050 U	2.6	5.5	2.9	3.3	6.9	0.49	0.65
Nitrite	1	0.050 U	0.050 U	0.037 J	0.050 U	0.050 U	0.050 U	0.042 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.005 U	***0.007***	0.005 U	0.005 U	***0.008***	0.0059	***0.005 J***	0.005 U	0.005 U	0.005 U	***0.005 J***	0.005 U	0.005 U
Sulfate	250	34.6	5.0 U	25.6	7.7	5.0 U	14.5	46.5	5.0 U	26.1	30.8	20.1	20.2	22.0
Total Dissolved Solids	---	365	1790	274	53.0	793	849	648	680	134	473	216	286	282

Footnotes/Qualifiers:

mg/l	Milligrams per liter
U	Compound was analyzed for but not detected
J	Estimated detection limit or value
--	No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value	

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	Sample ID Sample Date	LF-1 5/19/21	LF-2 5/19/21	MW-05B 5/17/21	MW-06A 5/18/21	MW-06B 5/18/21	MW-06C 5/18/21	MW-06E 5/18/21	MW-06F 5/18/21	MW-08A 5/17/21	MW-08B 5/17/21	MW-09B 5/17/21	MW-09C 5/17/21	OBS-1 5/17/21
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	1.6	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	***3.1***	1 U	1 U	***4.9***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	***4.5***	1 U	1 U	***5.7***	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	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	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	1 U
Chlorobenzene	5	1 U	3.7	1 U	1 U	***13.4***	1 U	1 U	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	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***21.9***	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1	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	***12.9***	1 U	1 U	3.3	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	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	***7.5***	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	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	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.3	1 U	1.5	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	1 U
Xylenes, Total	5	3 U	3.8	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	--	5	28	ND	ND	28.9	ND	ND	ND	32.7	ND	1.5	ND	ND

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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID Sample Date Type: Units in ug/l		LF-1 5/19/21 Total	LF-1 5/19/21 Dissolved	LF-2 5/19/21 Total	LF-2 5/19/21 Dissolved	MW-05B 5/17/21 Total	MW-05B 5/17/21 Dissolved	MW-06A 5/18/21 Total	MW-06A 5/18/21 Dissolved	MW-06B 5/18/21 Total	MW-06B 5/18/21 Dissolved	MW-06C 5/18/21 Total	MW-06C 5/18/21 Dissolved	MW-06E 5/18/21 Total
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	72.5 J	72.1 J	61.8 J	61.9 J	40.9 J	41 J	15.5 J	15 J	66.8 J	68.5 J	29.2 J	28.9 J	179 J
Calcium	--	15900	16400	41500	42500	13100 J	13700 J	1040	979 J	22600	23500	50000	51200	25200
Chromium	50	10 U	10 U	11.2	10.4	10 U	10 U	10 U	10 U	2.3 J	2 J	40.5	4.7 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	25 U
Iron	300 #	***19900***	***20200***	***10500***	***10400***	100 U	20 U	26.1 J	20 UB	***13600***	***14000***	***5640***	***4970***	***5250***
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	11800	12300	30200	30100	5420	5750	954	976 J	21700	22400	11800	12100	11700
Manganese	300 #	***3000***	***2980***	***175***	***176***	***3100 J***	***3140 J***	5.4 J	5.2 J	***49.2***	***49.4***	***156***	***153***	***328***
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	0.2 U
Nickel	100	6.9 J	6.6 J	21.9 J	22.1 J	7.9 J	7.2 J	4.8 J	40 U	13 J	13.1 J	150	17.8 J	15.7 J
Potassium	--	10100	9670	166000	156000	10000 J	9700 J	1550 J	1450 J	131000	128000	37800	36100	26200
Sodium	20000	***62400***	***59100 J***	***466000***	***441000 J***	***57300 J***	***55800 J***	5840	5300	***245000***	***238000 J***	***237000***	***223000 J***	***163000***
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.9 UB	20 U	20 U	20 U	20 U	19 J

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 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-06E	MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		5/18/21	5/18/21	5/18/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21
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 U	213	229	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	181 J	258	260	79.1 J	80.1 J	40.9 J	42.1 J	81.6 J	85.7 J	61.8 J	63.6 J	37.3 J	38.3 J
Calcium	--	26100	46100	47500	15200	16000	13200	14100	10300	11200	10400	11000	12800	13600
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11.4	2.5 J	10 U	10 U	10 U	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	25 U
Iron	300 #	***5190***	34 J	29.5 UB	100 U	20 U	100 U	20 U	***147***	***77.6***	100 U	9.2 UB	***31.9 J***	29.4 UB
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	12200	17800	18600	4660	4960	5450	5910	4640	5130	7870	8500	8840	9490
Manganese	300 #	***330***	130	130	***708***	***727***	***3110***	***3230***	***2060***	***2190***	252	262	***2230***	***2300***
Mercury	0.7	0.2 U	0.16 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	0.2 U	0.2 U
Nickel	100	15.2 J	30.6 J	30.8 J	17.5 J	17.1 J	7.8 J	7.6 J	29.3 J	20.9 J	4.6 J	40 U	4.6 J	4.4 J
Potassium	--	25500	10000	9670	8940	8610	10100	9980	8190	8190	11600	11400	21300	21200
Sodium	20000	***156000 J***	***181000***	***172000 J***	***118000***	***115000***	***57400***	***57300***	***45100***	***45000***	***60800***	***60200***	***47700***	***46500***
Zinc	2000	19.4 UB	24.2	26.5 UB	38.1	42.1	20 U	20 U	20 U	20 U	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 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 / Units in mg/l	NYSDEC Class GA Standard or Guidance Value	LF-1 5/19/21	LF-2 5/19/21	MW-05B 5/17/21	MW-06A 5/18/21	MW-06B 5/18/21	MW-06C 5/18/21	MW-06E 5/18/21	MW-06F 5/18/21	MW-08A 5/17/21	MW-08B 5/17/21	MW-09B 5/17/21	MW-09C 5/17/21	OBS-1 5/17/21
LEACHATE INDICATORS														
Alkalinity, Total	---	68.5	1600	34.3 J	2.6	1270	511	88	1.0 U	6.2	33.6	26.8	52.9	158
Alkalinity,Bicarbonate	---	68.5	--	34.3 J	2.6	1270	511	88	1.0 U	6.2	33.6	26.8	52.9	158
Alkalinity,Carbonate	---	1.0 UJ	--	1.0 UJ	1.0 U	5 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chloride	250	131	***533***	95.5 J	7.5	***256***	***267***	***373***	***525***	250	95.3	82.4	99.1	69
Cyanide	0.2	0.005 UJ	0.0033 J	0.005 U	0.005 UJ	0.0021 J	0.005 UJ	0.005 UJ	0.005 UJ	0.002 J	0.005 U	0.005 U	0.005 U	0.005 U
Hardness	---	88.3	228	55 J	65.3	146	173	111	188	57.1	55.4	44.8	58.4	68.4
Hexavalent Chromium	0.05	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	***2.8***	***188***	0.10 U	0.16	***190***	***27.2***	***17.1***	0.17	0.12	0.10 U	0.64	***2.1***	***17.5***
Nitrogen, Kjeldahl, Total	---	2.5 UB	203 J	0.31 UB	1.6 UB	204 J	34.2 J	22.9 J	0.10 U	0.10 UB	0.10 U	0.10 U	2.7 UB	22.4 J
Nitrate	10	0.050 UJ	0.050 UJ	5.5 J	0.46	0.050 U	0.050 U	2.1	4.0	2.6	4.5	4.7	0.25	0.25 U
Nitrite	1	0.037 J	0.050 U	0.038 J	0.050 U	0.050 U	0.050 U	0.031 J	0.03 J	0.050 U	0.032 J	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.005 UJ	***0.006 J***	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ
Sulfate	250	35.4	5.0 U	20.7	6.6	5.0 U	21	46.5	2.7 UB	31.2	20.7	21.8	23	24.9
Total Dissolved Solids	---	318	1810	250 J	40	1130	888	688	904	412 J	282 J	200 J	264 J	268 J

Footnotes/Qualifiers:

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

Exceeds NYSDEC Class GA Standard or Guidance Value

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

Units in ug/l	Sample ID Sample Date	LF-1 10/29/21	LF-2 10/29/21	MW-05B 10/25/21	MW-06A 10/28/21	MW-06B 10/28/21	MW-06C 10/27/21	MW-06E 10/27/21	MW-06F 10/27/21	MW-08A 10/25/21	MW-08B 10/25/21	MW-09B 10/25/21	MW-09C 10/25/21	OBS-1 10/25/21
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	0.66 J	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	***3.1***	1 U	1 U	2.4	1.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	***3.7***	1 U	1 U	***1.5***	***1.8***	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 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
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	3.2	1 U	1 U	4.7	4.1	1 U	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	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	2.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***12.9***	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1	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	***7.8***	1 U	1 U	2.1	1.9	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	***5.8***	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	***14.9***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.3	1 U	1.5	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	1 U
Xylenes, Total	5	3 U	3.2	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	--	18.46	22	ND	ND	10.7	9.4	ND	1	21	ND	1.5	ND	ND

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

D&B ENGINEERS AND ARCHITECTS

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-05B	MW-05B	MW-06A	MW-06A	MW-06B	MW-06B	MW-06C	MW-06C	MW-06E
Sample Date		10/29/21	10/29/21	10/29/21	10/29/21	10/25/21	10/25/21	10/28/21	10/28/21	10/28/21	10/28/21	10/27/21	10/27/21	10/27/21
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 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	226
Barium	1000	83.6 J	75.7 J	67.6 J	65.2 J	42.3 J	39.7 J	17.5 J	15.9 J	35.8 J	35.2 J	132 J	124 J	263 J
Calcium	--	17400	17100	46900	45700	13800 J	13300	1170	1110	12400	12400	21100	19800	47500
Chromium	50	1.7 J	10 U	12.9	11.7	1.3 J	10 U	1.2 J	10 U	3.9 J	1.6 J	1.8 J	10 U	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	9.1 J
Iron	300 #	***23100***	***19600 J***	***11200***	***10700 J***	100 U	20 U	174 U	105 U	***7090***	***6870 J***	***8870***	***8030 J***	75.2 U
Lead	25	3.3 J	5 U	2.5 J	5 U	5 U	5 U	5 U	5 U	2.6 J	5 U	5 U	5 U	3.1 J
Magnesium	35000	13200	12800	31900	31000	5580	5360	11500	1070	11500	11400	11200	10500	18400
Manganese	300 #	***3480***	***3190***	***188***	***182***	***3200***	***2990***	8.2 J	7.4 J	***24.7***	***25.9***	***264***	***246***	143
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.11 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.14 U	0.36 U
Nickel	100	9.0 J	8.1 J	23.5 J	22.9 J	8.6 J	8.4 J	5.6 J	5.8 J	12 J	12.7 J	14.3 J	12 J	32.5 J
Potassium	--	11400	11100	183000	182000	10200	10100	1570 J	1610 J	92100	92500	31600	31300	10600
Sodium	20000	***69000***	***65300***	***502000***	***489000***	***59400***	***56900***	6420	6020	***219000***	***215000***	***157000***	***149000 J***	***185000***
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5.1 J	11.7 J	9.0 J	29.8

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 value
--	No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

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

Sample ID		MW-06E	MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		10/27/21	10/27/21	10/27/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21
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	--	217	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	252 J	33.6 J	30.9 J	62.9 J	58.5 J	77.5 J	72.3 J	108 J	95 J	71 J	64.7 J	39.2 J	37.2 J
Calcium	--	45500	46900	43500	9920	9650	16300	15200	13500	12300	12700	11600	13500	12500
Chromium	50	10 U	2.6 J	10 U	10 U	10 U	1.4 J	10 U	1.6 J	10 U	10 U	10 U	1.6 J	10 U
Copper	200	8.0 J	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 #	47.4 U	***5110***	***4570 J***	100 U	20 U	25.4 U	20 U	100 U	20 U	100 U	8.9 U	30.2 U	24.4 U
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	3.2 J	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	17500	13400	12500	5280	4860	4870	4540	5770	5260	8390	7660	8570	7730
Manganese	300 #	133	***111***	***102***	133	119	***656***	***612***	***3170***	***2720***	307	280	***2350***	***2140***
Mercury	0.7	0.15 U	0.14 U	0.14 U	0.12 UJ	***2.5 J***	0.14 U	0.20 U	0.16 U	0.18 U	0.10 U	0.19 U	0.12 U	0.20 U
Nickel	100	31.4 J	13.8 J	13.1 J	9.0 J	8.4 J	18.4 J	17 J	7.3 J	40 U	5.8 J	5.3 J	6.6 J	5.0 J
Potassium	--	10600	74600	71500	5820	5600	9050	8780	9660	9130	12400	11700	21500	19800
Sodium	20000	***178000***	***261000***	***244000***	***22900***	***21700***	***121000***	***113000***	***50400***	***46200***	***65400***	***60100***	***51400***	***47500***
Zinc	2000	27.4	20 U	20 U	20 U	8.4 J	35.7	31.4 U	20 U	20 U	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 value
--	No standard
Exceeds NYSDEC Class GA Standard or Guidance Value	

D&B ENGINEERS AND ARCHITECTS

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

Sample ID Sample Date Units in mg/l		LF-1 10/29/21	LF-2 10/29/21	MW-05B 10/25/21	MW-06A 10/28/21	MW-06B 10/28/21	MW-06C 10/27/21	MW-06E 10/27/21	MW-06F 10/27/21	MW-08A 10/25/21	MW-08B 10/25/21	MW-09B 10/25/21	MW-09C 10/25/21	OBS-1 10/25/21
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	85.6	1490	33.6 J	4.2	689	126	1.0 U	772	10.5	8	29.7	55.7	146
Alkalinity,Bicarbonate	---	85.6	--	33.6 J	4.2	689	126	1.0 U	772	10.5	8	29.7	55.7	146
Alkalinity,Carbonate	---	1.0 U	--	1.0 U	1.0 U	1 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	109 J	***459 J***	107 J	8.7 J	241 J	231 J	***461 J***	38.6 J	42.7 J	220 J	73.6 J	113 J	56.7 J
Cyanide	0.2	0.0085 J	0.0128	0.0077	0.01 U	0.01 U	0.005 U	0.0072 J	0.009 J	0.008 J	0.0075 J	0.008	0.0086 J	0.01 U
Hardness	---	97.8	248	57.4 J	7.66	78.3	98.8	194	172	46.5	60.8	57.5	66.3	69
Hexavalent Chromium	0.05	0.020 UJ	0.020 UJ	0.020 U	0.02 UJ	0.020 UJ	0.020 U	0.020 U	0.020 U	0.02 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	***3.8***	***189***	0.10 U	0.92	***110***	***27***	0.65	***85.4***	0.52	0.10	0.44	***2.4***	***16.4***
Nitrogen, Kjeldahl, Total	---	4.2 J	204 J	0.12 UBJ	1 UBJ	121 J	29 J	0.1 UJ	89.1 J	0.1 UJ	0.1 UJ	0.10 UJ	3 J	16.9 J
Nitrate	10	0.050 U	0.050 U	3.7	0.24 UB	0.046 J	1.2	3.4	0.050 U	1.7	2.4	4.1	0.12 UB	0.22 UB
Nitrite	1	0.029 J	0.050 U	0.034 J	0.05 U	0.050 U	0.050 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	***0.0054***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250	32.7	5.0 U	23.5 J	6.7	0.15 J	45.7 J	0.29 J	8 J	26.8 J	27.8 J	19.4 J	22.9 J	19.9 J
Total Dissolved Solids	500	284	***1610***	222	22	***796***	***536***	***860***	***920***	108	380	205	216	190

Footnotes/Qualifiers:

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

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

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

Units in ug/l	Sample ID Sample Date	LF-1 5/12/22	LF-2 5/12/22	MW-05B 5/5/22	MW-06A 5/11/22	MW-06B 5/11/22	MW-06C 5/10/22	MW-06E 5/12/22	MW-06F 5/11/22	MW-08A 5/10/22	MW-08B 5/10/22	MW-09B 5/5/22	MW-09C 5/5/22	OBS-1 5/5/22
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	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	***3.2***	1 U	1 U	***3.8***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	***2.8***	1 U	1 U	***3.6***	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	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	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	1 U
Chlorobenzene	5	1 U	3.5	1 U	1 U	***12.9***	1 U	1 U	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	1.3 UB	1 U	1 U	1.1 UB	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***11.5***	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	***8.6***	1 U	1 U	2.3	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	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	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***6.4***	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	***22.3***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.8	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	1 U
Xylenes, Total	5	3 U	2.7 J	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	--	26.6	20.8	ND	ND	23.6	ND	ND	ND	19.7	ND	ND	ND	ND

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

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

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

Units in ug/l	Sample ID Sample Date Type:	LF-1 5/12/22 Total	LF-1 5/12/22 Dissolved	LF-2 5/12/22 Total	LF-2 5/12/22 Dissolved	MW-05B 5/5/22 Total	MW-05B 5/5/22 Dissolved	MW-06A 5/11/22 Total	MW-06A 5/11/22 Dissolved	MW-06B 5/11/22 Total	MW-06B 5/11/22 Dissolved	MW-06C 5/10/22 Total	MW-06C 5/10/22 Dissolved	MW-06E 5/12/22 Total	MW-06E 5/12/22 Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	235	200 U	200 U	200 U
Barium	1000	84.7 J	93.7 UB	67.9 J	74.9 UB	34.4 J	36 UB	16.8 J	19.9 UB	63.5 J	76 UB	29.8 J	35.7 UB	169 J	191 J
Calcium	--	15400	16900 UB	46700	51600 UB	10600	11200 UB	1240	1410 UB	23400	27100 UB	52200	93000 UB	24600	27600 UB
Chromium	50	10 U	7.8 J	11.3	12.6	1.1 J	10 U	10 U	10 U	1.7 J	10 U	8.6 J	10 U	10 U	10 U
Copper	200	3.8 J	25 U	6.2 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	9 UB	25 U	25 U
Iron	300 #	***22400***	***23900***	***11300***	***12100***	100 U	20 U	100 U	16.4 UB	***14200***	***16100***	***5420***	***3940***	***7860***	***8390***
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	5 U
Magnesium	35000	10700	11800 UB	29100	31700 UB	4460	4580 UB	1290	1440 UB	23900	26900 UB	11800	24800 UB	12400	13900 UB
Manganese	300 #	***3330***	***3590***	***175***	190 UB	***2510***	***2600***	5.1 J	6.1 UB	***43.2***	49.6 UB	***186***	139 UB	***316***	348 UB
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	0.2 U	0.2 U
Nickel	100	7.9 J	9.2 UB	25.8 J	29.2 UB	10.1 J	8.4 UB	4.9 J	10.5 UB	11.6 J	12.4 UB	14.2 J	15.8 UB	15.2 J	17.6 UB
Potassium	--	14400	16000 UB	194000	223000	8880	9140 UB	1520 J	1770 UB	118000	143000	46400 J	36700	29100	33600 UB
Sodium	20000	***77700***	89200 UBJ	***515000***	587000 UBJ	***57000***	60300 UB	6310	8160 UBJ	***195000***	247000 UBJ	***263000***	200000 UBJ	***167000***	197000 UBJ
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	15.3 J	20 U	20 U	20 U	30.2	15.4 J

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 value
UB	Non-detect based on blank results
--	No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

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

Sample ID		MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		5/11/22	5/11/22	5/10/22	5/10/22	5/10/22	5/10/22	5/5/22	5/5/22	5/5/22	5/5/22	5/5/22	5/5/22
Type:		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	--	193 J	251	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	277	316	63.7 J	58.9 UB	66.7 J	65.7 UB	104 J	105 UB	69.4 J	70.2 UB	33.1 J	34.4 UB
Calcium	--	50700	56100 UB	11100	9520 UB	13400	13300 UB	13000	13300 UB	12300	12300 UB	11600	12100 UB
Chromium	50	10 U	10 U	10 U	10 U	1.2 J	10 U	1.4 J	10 U	10 U	10 U	10 U	10 U
Copper	200	5.8 J	25 U	5.4 J	25 U	25 U	25 U	25 U	25 U	3.9 J	25 U	25 U	25 U
Iron	300 #	160	51.2 UB	100 U	20 U	100 U	20 U	100 U	20 U	100 U	8.4 UB	36 UB	24.6 UB
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	19800	21600 UB	4820	4480 UB	4100	3970 UB	5890	5850 UB	7680	7570 UB	7180	7290 UB
Manganese	300 #	145	162 UB	126	115 UB	***579***	563 UB	***2960***	***2970***	***325***	324 UB	***2170***	***2230***
Mercury	0.7	***1.2***	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	32.4 J	37.7 UB	9.5 J	8.6 UB	17.7 J	15.9 UB	5.4 J	4.9 UB	6.4 J	5.9 UB	5.9 J	5.5 UB
Potassium	--	11200	13400 UB	6840	6070 UB	8200	7970 UB	9830	9710 UB	12200	11900 UB	18000	18200 UB
Sodium	20000	***181000***	231000 UBJ	***24500***	22100 UB	***101000***	101000 UB	***55800***	57000 UB	***62900***	63900 UB	***41700***	43700 UB
Zinc	2000	26.3	28.4	12.8 J	9.8 J	31.2	30.5	20 U	20 U	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 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 Units in mg/l		LF-1 5/12/22	LF-2 5/12/22	MW-05B 5/5/22	MW-06A 5/11/22	MW-06B 5/11/22	MW-06C 5/10/22	MW-06E 5/12/22	MW-06F 5/11/22	MW-08A 5/10/22	MW-08B 5/10/22	MW-09B 5/5/22	MW-09C 5/5/22	OBS-1 5/5/22
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	54.6	1580	37.9	4	981	532	81.6	1 U	16.2	6.5	30.1	57.5	126
Alkalinity,Bicarbonate	---	54.6	--	37.9	4	981	532	81.6	1 U	16.2	6.5	30.1	57.5	126
Alkalinity,Carbonate	---	1 UJ	--	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U
Chloride	250	123	***446***	80.1	8.4	126	224	***277***	***344***	39.3	115	61.9	72.5	52.9
Cyanide	0.2	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ
Hardness	---	82500	236000	44800	8410	157000	179000	112000	208000	47600	50300	56700	62300	58500
Hexavalent Chromium	0.05	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ
Nitrogen, Ammonia	2	0.37	***675***	0.061 J	0.092 J	***165***	***35.8***	***15.7***	0.2	0.1 U	0.067 J	0.47	***3***	***12.3***
Nitrogen, Kjeldahl, Total	---	1.1 UB	169	0.18 UB	2 UB	150	35.4	17.2	0.1 U	0.1 U	0.1 U	0.1 U	3.4	12.8
Nitrate	10	0.05 UJ	0.05 UJ	2.1	0.32 J	0.05 UJ	0.05 UJ	1.5 J	4.2 J	1.9 J	2.4 J	4 J	0.092 UB	0.12 UB
Nitrite	1	0.048 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	***0.017***	0.005 U	***0.01***	***0.018***	***0.012***	0.005 U	***0.006***	0.005 U	***0.005 J***	0.005 U	0.005 U	0.005 U
Sulfate	250	33.3	0.19 UB	21.3	7.1	0.63 UB	10.8	43	0.27 UB	33	23.6	19.1	22.2	20.9
Total Dissolved Solids	500	304	***1860***	268	46	***794***	***950***	***647***	***737***	188	391	234	294	266

Footnotes/Qualifiers:

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

Exceeds NYSDEC Class GA Standard or Guidance Value