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Date: July 8, 2025
Our Ref: 30227172.RPTI4
Subject: 2024 Annual Summary Report for the BPGWCS Operation and Monitoring Program
Bethpage Park Groundwater Containment System (BPGWCS),
Operable Unit 3 (Former Grumman Settling Ponds),
Bethpage, New York, NYSDEC Site #1-30-003A.

Dear Sarah,

Enclosed is one electronic PDF copy of the 2024 Annual Summary Report for the BPGWCS Operation and Monitoring Program, prepared in accordance with the 2013 NYSDEC ROD, 2014 NYSDEC Order on Consent, OM&M Manual (Arcadis 2009) and the NYSDEC-approved Sampling and Analysis Plan (SAP; Arcadis 2009). As we have transitioned to electronic submittals (via PDF) in line with NYSDEC's paper reduction program, hard copies of the report can be provided on request.

The notable total and project VOC concentrations detected between Q3 2021 and Q3 2023 in RW-2, RW-1 (Figures 6A and 6B), and system influent water samples (Figure 7) have decreased significantly by Q4 2024. VOCs have not been detected in the BPGWCS Q2 2024 effluent water samples (Table 3). In addition, the air quality impact analysis (Table 9) shows that none of the detected compounds exceed the 6 NYCRR Part 212-2.2 Table 2 High Toxicity Air Contaminant List annual mass emission limits. We will continue to monitor.

Ms. Sarah A. Johnston
NYSDEC RB

July 8, 2025

If you have any questions, please do not hesitate to contact me.

Sincerely,
Arcadis of New York, Inc.

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Vice President

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Northrop Grumman

2024 Annual Operation, Maintenance, And Monitoring Report

Operable Unit 3 – Groundwater

Bethpage, New York

NYSDEC ID # 1-30-003A

July 8, 2025

2024 Annual Operation, Maintenance, and Monitoring Report

Operable Unit 3 – Groundwater
Bethpage, New York
NYSDEC ID # 1-30-003A

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1 Introduction

Pursuant to the Administrative Order on Consent (AOC) Index #W1-0018-04-01 (New York State Department of Environmental Conservation [NYSDEC] 2005) and the Operable Unit 3 (OU3) Record of Decision (ROD) (NYSDEC 2013), Arcadis of New York, Inc. (Arcadis), on behalf of Northrop Grumman, has prepared this OU3 Bethpage Park Groundwater Containment System (BPGWCS) Annual Summary Report for submittal to the NYSDEC. The present-day Bethpage Community Park property (Park), McKay Field Access Road, and Former Plant 24 Access Road, which the NYSDEC has termed the "Former Grumman Settling Ponds Area" and designated as OU3, are referred to herein as the Site Area. **Figure 1** provides a Site Location map.

The BPGWCS (previously referred to as the Groundwater Interim Remedial Measure and also known as the OU3 On-site Containment [ONCT] system) has been operational since July 21, 2009. The operation, maintenance, and monitoring (OM&M) activities performed during 2024 (i.e., January 1 through December 31, 2024 [the "annual reporting period"]) are summarized in this Annual Summary Report. Data summaries for the previous three 2024 quarterly operational periods are available in the following letter reports:

- Results of First Quarter 2024 System Operation and Monitoring for the Bethpage Park Groundwater Containment System, May 2024 (Arcadis 2021a)
- Results of Second Quarter 2024 System Operation and Monitoring for the Bethpage Park Groundwater Containment System, August 2024 (Arcadis 2021b)
- Results of Third Quarter 2024 System Operation and Monitoring for the Bethpage Park Groundwater Containment System, November 2024 (Arcadis 2021c)

During the annual reporting period, the BPGWCS was operated, and the Environmental Effectiveness Monitoring Program was - conducted in accordance with the OU3 BPGWCS Groundwater Operation, Maintenance, and Monitoring Manual (OM&M Manual; Arcadis 2016).

As discussed in the OU3 Site Area Remedial Investigation Report (Site Area RI) (Arcadis 2011) and the Operation, Maintenance and Monitoring (OMM) Manual, Northrop Grumman does not take responsibility for certain compounds (e.g., Freon 12 and Freon 22) present in Site Area groundwater. Throughout this Annual Report, a distinction is made between "Project" and "Non-Project" volatile organic compounds (VOCs), defined as follows:

- Project VOCs: VOCs that may be related to former Northrop Grumman historical activities. For this OM&M Report, Project VOCs include 1,1,1-trichloroethane (1,1,1-TCA); 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA); 1,1-dichloroethene (1.1-DCE); tetrachloroethene (PCE); trichloroethylene (TCE); vinyl chloride (VC); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); benzene; toluene; xylene-O, and xylenes-M,P.
- Non-Project VOCs: VOCs, such as Chloroform, Freon 12 and Freon 22, that are understood to be unrelated to former Northrop Grumman activities but have been detected in Site Area groundwater. As noted in the Site Area RI (Arcadis 2011), a sub-plume of Freon 22 had been identified originating from the area of the Town of Oyster Bay's (Town) former ice rink. Based on Town information (Zervos 2007), Freon 22 was used by the Town and released to the environment.

2 Bethpage Park Groundwater Containment System Objectives

Remedial action objectives (RAOs) for the BPGWCS are as follows:

- Mitigate the off-site migration of dissolved-phase VOCs in groundwater. Specifically, the BPGWCS was designed to address:
    - Groundwater that has total VOC concentrations greater than 5 micrograms per litre (µg/L) in the upper 20 feet of the surficial aquifer across the 1,200-foot-wide lateral extent of the Site Area southern boundary.
    - Groundwater below the upper 20 feet of the surficial aquifer that has total VOC concentrations greater than 50 µg/L across the 1,200-foot-wide lateral extent of the Site Area southern boundary.
- Comply with applicable NYSDEC standards, criteria, and guidance values (SCGs) for treated water and air emissions.

A secondary benefit of the BPGWCS is the creation of a clean water front atop downgradient groundwater, which minimizes the potential for vapor intrusion downgradient of the Site Area.

3 Bethpage Park Groundwater Containment System Description

The BPGWCS consists of:

- A pump-and-treat system where groundwater is:
    - Extracted along the Former Plant 24 Access Road via six remedial wells.
    - Conveyed to a treatment plant at McKay Field via four underground influent pipes.
    - Treated via air stripping to reduce concentrations of Project and Non-Project VOCs to comply with applicable NYSDEC SCGs, including SPDES discharge requirements for treated water.
    - Filtered to remove oxidized metals to comply with applicable NYSDEC SCGs, including SPDES discharge requirements for treated water.
    - Liquid-Phase Granular Activated Carbon (LGAC) Units reduce concentrations of Polychlorinated Biphenyls (PCBs) to comply with applicable NYSDEC SCGs, including SPDES discharge requirements for treated water.
    - Returned to the aquifer via a discharge pipeline routed to a recharge basin located on the adjacent former Bethpage Naval Weapons Industrial Reserve Plant (NWIRP) property.
- A vapor-phase treatment system that reduces concentrations of Project and Non-Project VOCs to below AGCs/SGCs in the air stripper off-gas prior to discharge to the atmosphere.
- A groundwater monitoring network utilized to periodically assess the environmental effectiveness of the BPGWCS.

Major components of the BPGWCS are as follows:

- Four remedial wells (RW-1, RW-2, RW-3, and RW-4) with design pumping rates of 30 gallons per minute (gpm), 75 gpm, 75 gpm, and 30 gpm, respectively; for a total design influent flow rate of 210 gpm.
- Monitoring Wells BCPMW-4-1 and BCPMW-4-2 were repurposed to serve as additional recovery wells on August 4, 2022; water extracted by these wells is conveyed (by pipeline) to the existing RW-1 well pipeline, and then flows to the treatment system. The pumping rate of RW-1 was reduced to 14 gpm to accommodate the pumping rates of BCPMW-4-1 and BCPMW-4-2, which are 3 gpm and 13 gpm, respectively. These three wells have a combined design pumping rate of 30 gpm.
- One low-profile air stripper to remove VOCs from extracted groundwater prior to discharge to the recharge basin.
- Two bag filter units configured so that one is operational, and the other is in standby mode. The system control logic automatically switches from the operational filter unit to the standby filter unit when the pressure differential between the influent and effluent sides of the operational bag filter reaches a pre-set limit to prevent a system shutdown and the spent filters are then replaced.
- 2 Liquid-Phase Granular Activated Carbon (LGAC) Units to remove Polychlorinated Biphenyls (PCBs) from extracted groundwater prior to discharge to the recharge basin.
- Four emission control units operating in series, with the first three containing vapor-phase granular-activated carbon and the last unit containing potassium permanganate-impregnated zeolite, to treat Project and Non-Project VOCs in the air stripper off-gas.
- A groundwater monitoring network, consisting of 49 monitoring locations, including 23 groundwater monitoring wells, six remedial wells, and 20 piezometers.

Figure 2 shows the layout of the BPGWCS, and **Figure 3** provides a schematic drawing of the remedial systems. **Figure 4** shows groundwater sampling locations that form the groundwater monitoring network. **Appendix A** provides construction details for the remedial wells, monitoring wells and piezometers. The latest version of the OM&M Manual (Arcadis 2016) provides additional information.

4 Operation and Maintenance Activities

4.1 Annual System Performance and Alarm Summary

The 2024 system operational up-time is documented in **Table 1** and summarized below along with BPGWCS shutdowns that occurred in 2024.

In 2024:

- The system operated 339 out of 365 days (93% uptime), which is slightly more than the 92% runtime documented in 2023.
- The remedial wells operated at reduced flow rates during portions of the year due to pump wear attributed to iron build-up in the pumps, influent pipelines and valves. The reduced flow rates were corrected by adjusting

the manifold globe valves or through the performance of periodic system maintenance (i.e., pulling and replacing the remedial well pumps and valve cleaning).

- There were 18 non-routine system shutdowns (less than 12 hours each) due to alarm conditions that occurred during operation of the system. Alarms in this category were responded to and troubleshooting was completed to restart the system within the same day (less than 12 hours).
- Four (4) non-routine system shutdowns resulted in downtime periods greater than 12 hours each as follows:
    - o 166-hour shutdown from 5/16/24 to 5/23/24 due to replacement of the blower.
    - o 54-hour shutdown from 6/8/23 to 6/10/24 due to a high-high alarm.
    - o 23.5-hour shutdown from 8/27/24 to 8/28/24 due to PSEG shut down.
    - o 99.5 -hour shutdown from 9/13/24 to 9/17/24 due to strainer maintenance.

5 System Monitoring Activities

5.1 Compliance and Performance Monitoring

The following compliance and performance monitoring activities were conducted during the annual reporting period (see Section 6 of the OM&M Manual for a summary of the compliance and performance monitoring program requirements):

- Fourteen (14) sampling events to collect 32 required water samples (WSP-1 through WSP-5 quarterly and WSP-7 monthly) and 8air samples (influent and effluent quarterly).
- As of August 4 2022, WSP-1 includes contributions from new recovery wells BCPMW-4-1 and BCPMW-4-2. Samples collected from remedial wells BCPMW-4-1 and BCPMW-4-2 have been previously provided in monthly progress reports.

Forty-four (44) weekly site visits to monitor and record key system operational parameters. System O&M results for the annual reporting period are summarized in the following tables and figures:

- Operational Summary, including monitoring events, system operational days, and noteworthy site activities (**Table 1**).
- Summary of Influent and Effluent Water Sample Analytical Results (**Tables 2** and **3**, respectively) – **Table 3** also provides the BPGWCS treatment system removal efficiency.
- Summary of Influent and Effluent Vapor Sample Analytical Results and Summary of Effluent Vapor Tentatively Identified Compounds (**Tables 4, 5** and **6**, respectively) – **Table 5** also provides the BPGWCS treatment system removal efficiency.
- Summary of System Parameters, including flow rates, line pressures, and temperatures (**Table 7**).
- Summary of Groundwater Recovered, VOC Mass Recovered, and VOC Mass Recovery Rates (**Table 8)** – **Table 8** provides a breakdown of these parameters by Remedial Well and breaks down the VOC mass recovered and VOC recovery rates into Project, Non-Project, and total VOCs.
- Cumulative Total, Project, and Non-Project VOC Mass Removed (**Figure 5).**

- Remedial Well Total, Project, and Non-Project VOC Concentrations (**Figures 6A, 6B**, and **6C**, respectively).
- Influent Total, Project, and Non-Project VOC Concentrations (**Figure 7**); and,
- Total, Project, and Non-Project VOC Mass Recovery Rates (**Figures 8A, 8B**, and **8C**, respectively).

5.2 Summary of Monitoring Results and Conclusions

5.2.1 System Operation and Effectiveness

Annual BPGWCS monitoring results and conclusions are summarized below:

- Total volume of groundwater recovered and treated (**Table 8**):
  - 2024 Annual Total: 106 million gallons
  - Cumulative total since system startup: 1.6 billion gallons
- Total VOC mass recovered (**Table 8**):
  - 2024 Annual Total: 49 lbs of VOCs
  - Cumulative total since system startup: 2,602 lbs of VOCs
- VOC mass recovered and mass removal rates (**Table 8** and **Figures 8A, 8B**, and **8C**):
  - The majority of VOCs recovered during the annual reporting period were Project VOCs (greater than 98 percent/ 49 lbs).
    - The majority of Project VOCs were recovered by RW-2 (31 percent/ 15 lbs).
  - The majority of Non-Project VOCs were recovered by RW-3 (75 percent/ 0.06 lbs).
- Treatment system influent concentrations (**Table 2**, and **Figures 6A, 6B, 6C**, and **7**):
  - During the annual reporting period, total Project VOC influent concentrations decreased from 29.7 µg/L in February to 19.8 µg/L in May and then increased to 30.3 ugL in November. Total Project VOC influent concentrations have generally decreased since 2010.
  - Non-Project VOCs influent concentrations decreased from 0.54 µg/L in January to not detected in May and then increased to 0.61 ug/L in November. These concentrations were below the peak concentration observed in 2014 (55 µg/L). Total Non-Project VOC influent concentrations have generally decreased since 2010.
- Total iron detected in the effluent sample during the annual reporting period ranged from 191 µg/L to 1,800 µg/L **(Table 3)**. On June 12, 2024, an increased total iron concentration of 1,800 ug/L was observed in the effluent sample. Bag filter maintenance conducted on the date the sample was collected likely contributed to the high iron concentration reported. Iron concentrations have since decreased and have been consistent with historical values.
- Project VOC Concentrations in Remedial Wells (**Table 10**):
  - For RW-1, there was a notable increase in total project VOC concentrations from 55.0 ug/l in May to 149.2 ug/l in November. The increase in flow rate from replacement of pumps and cleaning of the lines

may have contributed to the increased project VOCs in RW-1. We will continue to monitor and evaluate in future sampling events.

  - In RW-2, total Project VOC concentrations increased from 17.8 ug/l in February to 31.9 ug/l in November.
  - In RW-3, total Project VOC concentrations decreased from 12.5 ug/l in February to 2.7 ug/l in November.
  - In RW-4 total Project VOC concentrations decreased from 0.55 ug/L in February to non-detect.

- Non-Project VOC Concentrations in Remedial Wells (**Table 10**):
  - Non-Project total VOC concentrations were non-detect in RW-1 and RW-2 during 2024.
  - In RW-3, non-Project total VOC concentrations ranged from non-detect in February to 1.1 ug/L in November.
  - In RW-4, non-Project total VOC concentrations ranged from 0.55 ug/L in February to non-detect in November.
- The air stripper, air stripper off-gas treatment system, and bag filter system performed within acceptable operating ranges during the annual reporting period, as indicated by:
  - The air stripper VOC removal efficiency was greater than 99.9 percent for Project and Non-Project VOCs (**Table 3**).

5.2.2 Regulatory Status of Discharges

5.2.2.1 Air Discharges

Facility-wide emissions were evaluated for the reporting period to determine compliance with DAR-1 Guidelines for The Evaluation and Control of Ambient Air Contaminants Under 6 NYCRR 212 (Rule 212). Two different emission point sources, that operated for the reporting period, are included as part of the facility-wide emission sources. These emission sources included:

- OU3 BPGWCS which operated for the entire reporting period.
- OU3 Bethpage Park Soil Gas Containment System (BPSGCS) which operated for the entire reporting period.

Pursuant to 6 NYCRR 212-2.1, for an air contaminant listed in section 212-2.2 table 2 – high toxicity air contaminant (HTAC) list, the facility owner or operator shall either limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual HTAC; or demonstrate compliance with the air cleaning requirements for the HTAC as specified in subdivision 212-2.3(b), (table 4 – degree of air cleaning required for non-criteria air contaminants), of this Subpart for the environmental rating assigned to the contaminant by the department. For each non-HTAC air contaminant, dispersion modeling will not be required if the actual annual emission rate is less than 100 pounds per year facility-wide. Actual annual emission rates used for comparison can take control devices into account and must meet the provisions of 212-1.5(g). Emission source specific and facility-wide emission rates were calculated for the detected constituents for the reporting period and are summarized in **Table 9**. All detected compounds were below the compound specific mass emission limits for the reporting period and therefore, no further analysis was required.

Based on **Table 9** the facility-wide effluent air discharge for the annual reporting period meets the requirements of Rule 212.

5.2.2.2 Water Discharges

The BPGWCS-treated water effluent met NYSDEC regulatory requirements during the annual reporting period except for iron (**Table 3** and **Appendix B**), as noted below:

- The measured concentration of individual VOCs in the treated water effluent were below applicable discharge limits, per the interim State Pollutant Discharge Elimination System (SPDES) equivalency permit dated October 12, 2017, and as amended on March 23, 2023.
- The measured concentrations of total iron in the treated water effluent were below applicable SPDES discharge limits except for the June 12,2024 sample which showed a total iron concentration above the SPDES limit, however, the total iron concentrations have since decreased and are within applicable discharge limits.

Both water and air discharges complied with applicable SCGs and discharge limits (**Tables 3**, and **9**) except for the water effluent sample collected on June 12, 2024 which showed a total iron concentration above the SPDES limit, however, the total iron concentrations have since decreased and are within applicable discharge limits.

6 Environmental Effectiveness Monitoring

The OU3 BPGWCS environmental effectiveness (i.e., hydraulic monitoring and groundwater quality monitoring) activities and results for the annual reporting period are discussed below.

6.1 Hydraulic Monitoring

6.1.1 Activities

In accordance with the OM&M Manual requirements and methodologies (Arcadis 2016), groundwater hydraulic monitoring was performed quarterly during the annual reporting period. Specifically, depth-to-water measurements were completed on February 8, May 16, August 13, and November 26, 2024. The depth to water measurements were completed at the 43 monitoring wells/piezometers and 6 remedial wells forming the approved monitoring well network (**Figure 4**). **Table 11** summarizes results of depth-to-water measurements for the annual reporting period.

6.1.2 Results

Figure 9 provides the configuration of the shallow potentiometric surface and the inferred horizontal groundwater flow directions in November, 2024 (4th quarter) at the Site Area. Comparing fourth quarter water-level elevations from 2024 to those from 2023 indicates that the shallow potentiometric surface was approximately four feet higher at the time water level elevations were recorded in 2024 as compared to 2023.

Groundwater hydraulic monitoring is conducted quarterly; however, the shallow potentiometric surface is mapped for one quarter each year as the rise and fall of this surface seasonally, due to recharge or lack thereof, has a negligible effect on the capture zone of the remedial wells. As **Figure 9** shows, groundwater flow in the area is generally toward the south/southeast north of the remedial wells. The BPGWCS system is capturing groundwater

from beneath the entire Bethpage Community Park. The southern edge of the capture zone (groundwater divide) extends south of Monitoring Wells MW-204-1, MW-205-1, MW-206-1, MW-202-1, and MW-203-1.

Figure 10 provides a cross-sectional view of vertical groundwater flow (based on groundwater levels measured in the fourth quarter 2024 (November 2024), and Project VOC and Non-Project VOC concentrations in groundwater (based on results from the July 2024 annual groundwater sampling round). **Figure 10** indicates groundwater containing Project VOCs and Non-Project VOCs is being captured and removed by the remedial wells (at all depths), which exceeds the RAOs for the OU3 BPGWCS System.

Figure 9 in combination with **Figure 10** indicate that the OU3 BPGWCS provides effective vertical and horizontal hydraulic control of groundwater containing Project VOCs and Non-Project VOCs and prevents its movement offsite.

6.2 Groundwater Quality Monitoring

6.2.1 Activities

An annual groundwater sampling round was performed in July 2024 as part of site-wide sampling activity. Groundwater samples were collected from 19 monitoring wells that are specified for sampling in the OM&M Manual (Arcadis 2016). Additionally, in response to elevated VOC concentrations observed in wells BCPMW-4-2 and RW-2 in late 2021 and early 2022 a sampling program was initiated in March 2022 increasing the frequency of sampling wells in the area of BCPMW-4-1 and BCPMW-4-2

6.2.2 Results

Groundwater samples collected from the 19 monitoring wells were analyzed for Target Compound List (TCL) VOCs, plus Freon 12 and Freon 22, using USEPA Method 8260C, 1,4-Dioxane using USEPA Method 8270D SIM and total (unfiltered) and dissolved (filtered) metals (cadmium and chromium) using USEPA Method 6010. Samples collected as part of the BCPMW-4-1/4-2 area investigation were analyzed for TCL VOCs, plus Freon 12 and Freon 22, using USEPA Method 8260C.

Groundwater quality data, including historical results to date, are summarized in **Table 12** (for VOCs and 1,4-Dioxane) and **Table 13** (for metals).

Except as described below, total Project and Non-Project VOC concentrations in samples collected from the 19 monitoring wells during the July 2024 annual sampling event are consistent with previous historical results and did not show notable increases during 2024. Similar to the increase in VOC concentrations observed in RW-2 in August 2021, TVOC concentrations in monitoring well BCPMW-4-2, located approximately 85 feet west of RW-2, had also increased from 100 ug/L on July 20, 2020 to 1,700 ug/L on August 2, 2021. In response to this increase in TVOC concentrations in BCPMW-4-2, groundwater samples were collected from BCPMW-4-1, BCPMW-4-2, PZ 1A, PZ-3, PZ-4 in May and July 2022 and elevated concentrations were detected in BCPMW-4-1, BCPMW-4-2, PZ1A, PZ-3, and PZ4. In response to these elevated concentrations four monitoring wells (MW-200-1, MW201-1, MW -204-1, and MW205-1) located immediately downgradient of the BPGWCS remedial wells were sampled numerous times throughout 2024 to confirm there was no off-site migration of VOCs. Analytical results from the 2024 sampling events are provided in **Table 12**. Results from the additional samples from the downgradient

monitoring wells MW-200-1, MW-201-1, MW-204-1, MW-205-1 (**Table 12**) were consistent with previous historical results and did not show notable increases.

6.3 Environmental Effectiveness Monitoring Conclusions

As discussed above, **Figures 9** and **10** indicate that the OU3 BPGWCS System is operating as designed, that the expected associated capture zone has developed, and that off-site migration of groundwater containing Project VOCs and Non-Project VOCs is being prevented.

Groundwater monitoring results presented in **Table 12** confirm that the OU3 BPGWCS is effectively preventing Project VOCs and Non-Project VOCS in groundwater from migrating offsite.

7 Suggestions

Based on the information provided herein, operation of the BPGWCS should continue in accordance with the consent order and approved plans. System modifications or upgrades are not needed at this time.

8 Certification

Statement of Certification

On behalf of Northrop Grumman, I hereby certify and attest that the Operable Unit 3 Bethpage Park Groundwater Containment System is operated in compliance with the remedial action objectives provided within the NYSDEC approved Groundwater Interim Remedial Measure Work Plan (Arcadis 2007), which was prepared pursuant to NYSDEC Administrative Order on Consent Index # W1-0018-04-01 (NYSDEC 2005) referencing the Former Grumman Settling Ponds Site and dated July 4, 2005.

Christopher Engler, P.E.

Engineer of Record

License # 069748

9 References

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Tables

Table 1
Operational Summary
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

MONTH	DAY																													Days Operational [1]
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
2009 Total																																160
2010 Total																																352
2011 Total																																351
2012 Total																																353
2013 Total																																354
2014 Total																																349
2015 Total																																348
2016 Total																																351
2017 Total																																354
2018 Total																																348
2019 Total																																355
2020 Total																																345
2021 Total																																346
2022 Total																																344
2023 Total																																332
1Q 2024																																88
2Q 2024																																82
3Q 2024																																83
October 2024																																29
November 2024																																30
December 2024																																27
4Q 2024																																86
2024 Total																																339
TOTAL																																**5,381**

Legend:

Indicates system online for greater than 18 hours.
Indicates system operated with reduced flows for 6 hours or greater.
Indicates system off-line for 6 hours or greater.

Notes, Abbreviations, and Units on last page.

Table 1
Operational Summary
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Notes:

1. Days the system was operational for greater than 18 hours are counted as one day.

Abbreviations/Units:

4Q	Fourth Quarter 2024

Table 2
Summary of Influent Water Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Compound[3] (All Constituent Concentrations in µg/L)	02/22/24	05/15/24	08/07/24	11/13/24
Project VOCs				
1,1,1 - Trichloroethane	< 1.0	< 1.0	<1.0	<1.0
1,1 - Dichloroethane	< 1.0	< 1.0	<1.0	<1.0
1,2 - Dichloroethane	< 1.0	< 1.0	<1.0	<1.0
1,1 - Dichloroethene	< 1.0	< 1.0	<1.0	<1.0
Tetrachloroethene	< 1.0	< 1.0	<1.0	<1.0
Trichloroethene	**15.1**	**9.6**	**11.5**	**11.9**
Vinyl Chloride	**0.93 J**	< 1.0	<1.0	**0.74 J**
cis 1,2-Dichloroethene	**13.7**	**10.2**	**13.5**	**17.7**
trans 1,2-Dichloroethene	< 1.0	< 1.1	<1.0	<1.0
Benzene	< 0.50	< 0.51	<0.50	<0.50
Toluene	< 1.0	< 1.0	<1.0	<1.0
o-Xylene	< 1.0	< 1.0	<1.0	<1.0
m,p-Xylene	< 1.0	< 1.0	<1.0	<1.0
Subtotal Project VOCs	**29.7**	**19.8**	**25.0**	**30.3**
Non-Project VOCs				
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	< 5.0	< 5.1	< 5.0	< 5.0
2-Butanone	< 10	< 11	< 10	< 10
4-Methyl-2-Pentanone	< 5.0	< 5.1	< 5.0	< 5.0
Acetone	< 10	< 11	< 10	< 10
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane (Freon 22)	< 5.0	< 5.1	< 5.0	< 5.0
Chloroethane	< 1.0	< 1.1	< 1.0	< 1.0
Chloroform	**0.54 J**	< 1.0	< 1.0	**0.61 J**
Chloromethane	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0

Notes, Abbreviations, Qualifiers, and Units on last page.

Table 2
Summary of Influent Water Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Compound[3] (All Constituent Concentrations in µg/L)	02/22/24	05/15/24	08/07/24	11/13/24
Non-Project VOCs				
Dichlorodifluoromethane (Freon 12)	< 2.0	< 2.0	< 2.0	< 2.0
Dichloromethane	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	< 1.0	< 1.1	< 1.0	< 1.0
Methyl N-Butyl Ketone	< 5.0	< 5.1	< 5.0	< 5.0
Methyl Tert-Butyl Ether	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane (Freon 11)	< 2.0	< 2.1	< 2.0	< 2.0
Trichlorotrifluoroethane (Freon 113)	< 5.0	< 5.0	< 5.0	< 5.0
Subtotal Non-Project VOCs	**0.54**	**ND**	**ND**	**0.61**
Total VOCs[1,4]	**30**	**20**	**25**	**31**
1,4-Dioxane	<0.24	**0.40**	**0.64**	**1.45**
pH[2]	5.8	6.4	6.2	6.1

Notes, Abbreviations, Qualifiers, and Units:

1. "Total VOCs" represents the sum of individual concentrations of the compounds detected. The values used in calculations referenced in this report have been rounded to the nearest whole number.

2. Influent pH samples collected and measured in the field by Arcadis personnel on the dates listed using a field calibrated pH/conductivity meter. pH units are standard units.

3. Results validated following protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). See previous annual reports for historical analytical results.

4. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

VOC	Volatile Organic Compound
11.9	Bold value indicates a detection.
< 1.0	Compound not detected at or above the laboratory quantification limit.
µg/L	micrograms per liter
J	Result is estimated.

Table 3
Summary of Effluent Water Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Compound[6] (All Constituent Concentrations in µg/L)	Discharge Limit[1]	01/16/24	02/22/24	03/18/24	04/16/24	05/15/24	06/12/24	07/18/24	08/07/24	09/05/24	10/09/24	11/13/24	12/10/24
Project VOCs													
1,1,1-Trichloroethane	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis 1,2-Dichloroethene	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans 1,2-Dichloroethene	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Subtotal Project VOCs		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Compound[6] (All Constituent Concentrations in µg/L)	**Discharge Limit[1]**	**01/16/24**	**02/22/24**	**03/18/24**	**04/16/24**	**05/15/24**	**06/12/24**	**07/18/24**	**08/07/24**	**09/05/24**	**10/09/24**	**11/13/24**	**12/10/24**
Non-Project VOCs													
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	5[2]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	5[2]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorotrifluoroethane (Freon 113)	5[2]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Subtotal Non-Project VOCs		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Total VOCs[3]		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Treatment Efficiency[4]		> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%
Compound[6] (All Constituent Concentrations in µg/L)	**Discharge Limit[1]**	**01/16/24**	**02/22/24**	**03/18/24**	**04/16/24**	**05/15/24**	**6/12/2024[8]**	**07/18/24**	**08/07/24**	**09/05/24**	**10/09/24**	**11/13/24**	**12/10/24**
Inorganics													
Total Iron	600	**270**	**295**	**235**	**191**	**198**	**1,800**	< 100	**255**	< 100	**365**	**411**	**283**
Total Manganese	600	**60.8**	**55.1**	**49.0**	**48.2**	**43.3**	**84.8**	**42.3**	**40.8**	**42.1**	**41.3**	**38.2**	**40.4**
Nitrate and Nitrite	10,000	**2.3**	**2.0**	**2.0**	**2.3**	**2.2**	**2.3**	**2.3**	**2.2**	**2.3**	**2.2**	**2.3**	**2.4**
Total Kjeldahl Nitrogen	10,000	**0.2**	<0.20	<0.20	**0.27**	<0.20	**0.43**	**0.24**	< 0.3	**0.37**	< 0.2	**0.53**	< 0.2
Total Nitrogen	10,000	**2.5**	**2.0**	**2.0**	**2.6**	**2.2**	**2.7**	**2.5**	**2.4**	**2.7**	**2.4**	**2.8**	**2.6**
1,4-Dioxane	NE	**0.59**	**0.71**	**0.31**	**0.48**	**0.28**	< 0.24	**0.57**	**0.49**	**0.47**	**0.47**	< 0.24	**0.74**
Compound[6] (All Constituent Concentrations in µg/L)	**Discharge Limit[1]**	**01/11/24**	**02/22/24**	**03/18/24**	**04/16/24**	**05/15/24**	**06/12/24**	**07/18/24**	**08/07/24**	**09/05/24**	**10/09/24**	**11/13/24**	**12/10/24**
PCBs													
Aroclor 1016	0.095	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Aroclor 1221	0.095	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Aroclor 1232	0.095	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Aroclor 1242	0.095	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Aroclor 1248	0.095	**0.067**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.100**	< 0.050
Aroclor 1254	0.095	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Aroclor 1260	0.095	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
pH[5]	5.5-8.5	7.3	6.6	7.0	6.6	6.4	6.5	6.7	6.4	6.8	6.8	7.1	6.9

Notes, Abbreviations, Qualifers, and Units on last page.

Table 3
Summary of Effluent Water Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Notes, Abbreviations, Qualifiers, and Units:

1. Discharge limits per the interim SPDES equivalency program or Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Quality Standards and Guidance Values and Groundwater Effluent Limitations, if the compound is not part of the SPDES Permit Equivalency.

2. Discharge limits are per the SPDES permit equivalency, dated October 12, 2017, amended on March 23, 2023 and transmitted by the NYSDEC to Northrop Grumman on April 18, 2023.

3. "Total VOCs" represents the sum of individual concentrations of compounds detected. The values used in calculations referenced in this report have been rounded to the nearest whole number.

4. Treatment efficiency was calculated by dividing the difference between the influent and effluent total VOC concentrations by the influent total VOC concentration.

5. Effluent pH measured on site using a handheld pH meter. pH units are standard units.

6. Results validated following protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). See previous annual reports for historical analytical results.

7. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

8. The analytical results for iron collected from Outfall 1 (WSP-7) on June 12, 2024 were unusually high (1,800 ug/l). Based on analytical results showing decreased iron concentrations for July through December 2024 this result is considered anomalous and will be closely monitored.

9. As of January 2024, LGAC units were implemented following the bag filters to serve as a PCB treatment method as per the SPDES permit equivalency.

--	Not Analyzed
SPDES	State Pollutant Discharge Elimination System
LGAC	Liquid-Phase Granular Activated Carbon
VOC	Volatile Organic Compound
NE	Not Established
2.3	Bold value indicates a detection.
< 1.0	Compound not detected above the laboratory quantification limit.
µg/L	micrograms per liter
ND	Analyte not detected at, or above its laboratory quantification limit.

Table 4
Summary of Influent Vapor Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Compound[1,3] (All Constituent Concentrations in µg/m^3)	2/22/2024	5/15/2024	8/28/2024	11/13/2024
Project VOCs				
1,1,1 - Trichloroethane	**0.48**	< 0.44	<0.44	< 0.44
1,1 - Dichloroethane	**3.5**	**2.1**	**2.8**	**2.2**
1,2 - Dichloroethane	< 0.65	< 0.65	<0.65	< 0.65
1,1 - Dichloroethene	**1.6**	**0.91**	**0.83**	**1.1**
Tetrachloroethene	**3.4**	**3.0**	**2.8**	**1.7**
Trichloroethene	**278**	**249**	**198**	**163**
Vinyl Chloride	**14**	**4.1**	**2.5**	**6.9**
cis 1,2-Dichloroethene	**241**	**157**	**229**	**236**
trans 1,2-Dichloroethene	**2.6**	**1.3**	**1.8**	**1.9**
Benzene	**0.93**	**0.51**	**2.3**	**2.6**
Toluene	**0.35 J**	**3.6**	**2.5**	**0.72**
o-Xylene	< 0.69	< 0.69	**0.74**	**0.41**
m,p-Xylene	< 0.69	< 0.69	**1.3**	< 0.69
Subtotal Project VOCs	**546**	**422**	**444**	**417**
Non-Project VOCs				
1,1,2,2-Tetrachloroethane	< 0.55	< 0.55	<0.55	<0.55
1,1,2-Trichloroethane	< 0.44	< 0.44	<0.44	<0.44
1,2-Dichloropropane	< 0.74	< 0.74	<0.74	<0.74
1,3-Butadiene	< 0.35	< 0.35	<0.35	<0.35
2-Butanone	**1.7**	**2.7**	**8.0**	**3.5**
4-Methyl-2-Pentanone	< 0.66	**4.1**	<0.66	<0.66
Acetone	**7.6**	**6.7**	**26.8**	**27.8**
Bromodichloromethane	< 0.54	< 0.54	**1.1**	< 0.54
Bromoform	< 0.33	<0.33	<0.33	<0.33
Bromomethane	< 0.62	<0.62	<0.62	<0.62
Carbon Disulfide	< 0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	< 0.20	<0.20	<0.20	<0.20
Chlorobenzene	< 0.74	<0.74	<0.74	<0.74
Chlorodibromomethane	**1.6**	**0.94**	**1.0**	< 0.68
Chlorodifluoromethane (Freon 22)	**3.2**	**3.1**	<0.56	**1.8**
Chloroethane	< 0.42	<0.42	<0.42	<0.42
Chloroform	**14**	**13**	**12**	**4.6**
Chloromethane	**1.4**	**1.1**	**1.3**	**1.5**
cis-1,3-Dichloropropene	< 0.73	<0.73	<0.73	< 0.73
Dichlorodifluoromethane (Freon 12)	**2.3**	**2.2**	**1.7**	**1.8**
Dichloromethane	**2.3**	**1.8**	**4.2**	**8.7**
Ethylbenzene	< 0.69	<0.69	**0.42 J**	< 0.69
Methyl N-Butyl Ketone	< 0.65	<0.65	**1.2**	< 0.66
Methyl Tert-Butyl Ether	**0.32 J**	**0.28 J**	<0.58	< 0.58
Styrene (Monomer)	< 0.68	<0.68	<0.68	< 0.68
trans-1,3-Dichloropropene	< 0.73	<0.73	<0.73	< 0.73
Trichlorofluoromethane (Freon 11)	**1.6**	**1.5**	**1.1**	**1.2**
Trichlorotrifluoroethane (Freon 113)	**2.1**	**2.2**	**1.5**	**1.0**
1-Chloro-1,1-difluoroethane (Freon 142b)	**0.34 J**	<0.66	<0.66	< 0.66
Subtotal Non-Project VOCs	**38**	**40**	**60**	**52**
Total VOCs[2,4,5]	**584**	**461**	**504**	**468**

Notes, Abbreviations, Qualifiers, and Units on last page.

Table 4
Summary of Influent Vapor Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Notes, Abbreviations, Qualifiers, and Units:

1. Vapor samples collected by Arcadis on the dates shown and submitted to a NYSDOH ELAP certified laboratory for VOC analyses per Modified USEPA Method TO-15. A VOC analyte list is provided in the DRAFT Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). Influent samples were collected at Vapor Sampling Port-1 (VSP-1); refer to Figure 3 of this OM&M Report for the location of VSP-1.

2. "Total VOCs" represents the sum of individual concentrations of compounds detected. The values used in calculations referenced in this report have been rounded to the nearest whole number.

3. Results validated following protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). See previous annual reports for historical analytical results.

4. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

ELAP	Environmental Laboratory Approval Program
NYSDOH	New York State Department of Health
OM&M	Operation, Maintenance, and Monitoring
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

2.2	Bold value indicates a detection.
< 0.44	Compound not detected above the laboratory quantification limit.
J	Result is estimated.

µg/m^3	micrograms per cubic meter

Table 5
Summary of Effluent Vapor Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Compound[1,3] (All Constituent Concentrations in µg/m^3)	02/22/24	05/15/24	08/28/24	11/13/24
Project VOCs				
1,1,1 - Trichloroethane	< 0.44	< 0.44	<0.44	<0.44
1,1 - Dichloroethane	**2.0**	**2.2**	**2.4**	**2.1**
1,2 - Dichloroethane	< 0.65	< 0.65	<0.65	< 0.65
1,1 - Dichloroethene	**1.1**	**1.3**	**1.2**	**1.1**
Tetrachloroethene	**5.9**	**0.50**	**0.36**	**0.26**
Trichloroethene	**29.0**	**17.0**	**15.0**	**15.0**
Vinyl Chloride	**6.1**	**2.6**	**1.3**	**2.8**
cis 1,2-Dichloroethene	**94**	**115**	**138**	**121**
trans 1,2-Dichloroethene	**1.10**	**0.87**	**1.1**	**0.95**
Benzene	**0.51**	**0.27 J**	**0.30 J**	< 0.51
Toluene	**2.1**	**0.45 J**	**0.83**	< 0.60
o-Xylene	**0.96**	< 0.69	< 0.69	< 0.69
m,p-Xylene	**3.4**	< 0.69	< 0.69	< 0.69
Subtotal Project VOCs	**146**	**140**	**160**	**143**
Non-Project VOCs				
1,1,2,2-Tetrachloroethane	< 0.55	<0.55	<0.55	<0.55
1,1,2-Trichloroethane	< 0.44	<0.44	<0.44	<0.44
1,2-Dichloropropane	< 0.74	<0.74	<0.74	<0.74
1,3-Butadiene	< 0.35	<0.35	<0.35	<0.35
2-Butanone	**2.3**	**1.4**	**21.0**	**0.44 J**
4-Methyl-2-Pentanone	**0.41 J**	<0.66	<0.66	<0.66
Acetone	**22.0**	**13.0**	**43.5**	**5.0**
Bromodichloromethane	< 0.54	<0.54	<0.54	<0.54
Bromoform	< 0.33	<0.33	<0.33	<0.33
Bromomethane	< 0.62	<0.62	<0.62	<0.62
Carbon Disulfide	< 0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	**0.82**	<0.20	<0.20	<0.20
Chlorobenzene	< 0.74	<0.74	<0.74	<0.74
Chlorodibromomethane	< 0.68	<0.68	<0.68	<0.68
Chlorodifluoromethane (Freon 22)	**3.2**	**3.5**	< 0.56	**1.9**
Chloroethane	< 0.42	<0.42	<0.42	<0.42
Chloroform	**6.3**	**8.3**	**7.8**	**6.3**
Chloromethane	**9.5**	**1.5**	**1.1**	**0.78**
cis-1,3-Dichloropropene	< 0.73	<0.73	<0.73	<0.73
Dichlorodifluoromethane (Freon 12)	**2.1**	**2.6**	**1.6**	**1.6**
Dichloromethane	**1.5**	**2.1**	**1.2**	**1.5**
Ethylbenzene	**0.61 J**	<0.69	<0.69	< 0.69
Methyl N-Butyl Ketone	< 0.65	<0.65	**0.53 J**	<0.65
Methyl Tert-Butyl Ether	< 0.58	<0.58	<0.58	<0.58
Styrene (Monomer)	< 0.68	<0.68	<0.68	<0.68
trans-1,3-Dichloropropene	< 0.73	<0.73	<0.73	<0.73
Trichlorofluoromethane (Freon 11)	**1.3**	**1.7**	**1.2**	**0.96**
Trichlorotrifluoroethane (Freon 113)	< 0.61	<0.61	<0.61	<0.66
1-Chloro-1,1-difluoroethane (Freon 142b)	**0.35 J**	<0.66	<0.66	<0.65
Subtotal Non-Project VOCs	**50.4**	**34.1**	**77.9**	**18.5**
Total VOCs[2,4]	**197**	**174**	**238**	**162**

Notes, Abbreviations, Qualifiers, and Units on last page.

Table 5
Summary of Effluent Vapor Sample Analytical Results
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Notes, Abbreviations, Qualifiers, and Units:

1. Vapor samples collected by Arcadis on the dates shown and submitted to a NYSDOH ELAP certified laboratory for VOC analyses per Modified USEPA Method TO-15. A VOC analyte list is provided in the DRAFT Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). Effluent samples were collected at Vapor Sampling Port-5 (VSP-5); refer to Figure 3 of this OM&M Report for the location of VSP-5.

2. "Total VOCs" represents the sum of individual concentrations of all compounds detected. The values used in calculations referenced in this report have been rounded to the nearest whole number.

3. Results validated following protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). See previous annual reports for historical analytical results.

4. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

ELAP	Environmental Laboratory Approval Program
NYSDOH	New York State Department of Health
OM&M	Operation, Maintenance, and Monitoring
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
2.1	Bold value indicates a detection.
< 0.69	Compound not detected above the laboratory quantification limit.
J	Result is estimated.
$\mu g/m^3$	micrograms per cubic meter

Table 6
Summary of Effluent Vapor Tentatively Identified Compounds
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Compound[1,3] (All Constituent Concentrations in ppbv)	02/22/24	05/15/24	08/28/24	11/13/24
Tentatively Identified Compounds				
1-Butanol	**3**	ND	ND	ND
Octane, 3-methyl	**6**	ND	ND	ND
Nonane	**2.5**	ND	ND	ND
alkane	**3.4**	**0.83 J**	ND	ND
Camphene	**2.7**	ND	ND	ND
Total VOC TICs[2,4]	**78**	**0.83**	**ND**	**ND**

Notes, Abbreviations, Qualifiers, and Units:

1. Vapor samples collected by Arcadis on the dates shown and submitted to a NYSDOH ELAP certified laboratory for VOC analyses per Modified USEPA Method TO-15. A VOC analyte list is provided in the Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). Effluent samples were collected at Vapor Sampling Port-5 (VSP-5); refer to Figure 3 of this OM&M Report for the location of VSP-5.

2. Compounds found in associated method blank are not included in Total VOC TICs.

3. Results validated following protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). See previous annual reports for historical analytical results.

4. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

ECU	Emission Control Unit
ELAP	Environmental Laboratory Approval Program
NYSDOH	New York State Department of Health
OM&M	Operation, Maintenance, and Monitoring
TIC	Tentatively Identified Compound
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
0.83	Bold value indicates a detection.
ND	TIC were not detected.
B	TIC was detected in the associated method blank.
J	Result is estimated.
N	Indicates presumptive evidence of a compound.

Table 7
Summary of System Parameters,
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Date [1]	Water Flow Rates (All Flows in gpm)						Water Pressures (All Pressures in psi)					Air Flow Rate (scfm) [2]	Air Pressures (All Pressures in iwc) [5,6]					Air Temp. (^{o}R)[5]
	Remedial Well [2]				Combined Influent [3]	Effluent [2]	Remedial Well Effluent [2,4]				Effluent [5]	Effluent	ECU Influents				Effluent	Effluent
	RW-1[7]	RW-2	RW-3	RW-4			RW-1	RW-2	RW-3	RW-4			GAC-501	GAC-502	PPZ-601	PPZ-602		
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(psi)	(psi)	(psi)	(psi)	(psi)	(scfm)	(iwc)	(iwc)	(iwc)	(iwc)	(iwc)	(^{o}R)
01/11/24	25.2	75.2	77.5	30.4	208	286	8	67	65	70	17	1,068	2.0	< 1.0	< 1.0	< 1.0	< 1.0	526
02/22/24	25.5	69.5	78.1	29.9	203	254	7	46	33	57	12	1,026	2.0	< 1.0	< 1.0	< 1.0	1.0	520
03/18/24	25.8	73.6	78.0	29.6	207	260	8	38	33	58	25	1,064	1.5	< 1.0	< 1.0	< 1.0	< 1.0	526
04/16/24	29.0	71.7	76.6	28.8	206	260	8	43	39	59	17	1,012	1.5	< 1.0	< 1.0	< 1.0	< 1.0	538
05/15/24	20.1	71.7	76.9	28.0	197	249	8	42	38	60	11	948	1.0	< 1.0	< 1.0	< 1.0	< 1.0	534
06/12/24	30.2	75.8	77.7	29.9	214	261	8	30	35	58	18	1,044	2.0	< 1.0	< 1.0	< 1.0	< 1.0	546
07/18/24	20.8	76.5	78.1	29.7	205	266	8	28	37	59	26	1,012	1.5	< 1.0	< 1.0	< 1.0	< 1.0	543
08/07/24	19.4	76.3	77.9	29.6	203	258	8	28	37	58	18	1,000	1.5	< 1.0	< 1.0	< 1.0	< 1.0	540
09/05/24	18.4	77.0	75.6	30.7	202	245	8	25	42	57	16	1,205	3.0	< 1.0	< 1.0	< 1.0	< 1.0	543
10/09/24	17.0	74.6	76.6	30.5	199	244	6	28	41	57	6	1,240	3.0	< 1.0	< 1.0	< 1.0	1.0	532
11/13/24	15.9	74.1	73.3	29.8	193	259	5	31	46	57	15	1,258	2.5	< 1.0	< 1.0	< 1.0	< 1.0	524
12/10/24	13.9	72.3	75.7	29.4	191	247	6	33	43	58	11	1,131	2.5	< 1.0	< 1.0	< 1.0	1.0	524

Notes, Abbreviations, and Units on last page.

Table 7
Summary of System Parameters,
Bethpage Park Groundwater Containment System,
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman
Bethpage, New York

Notes, Abbreviations, and Units:

1. Operational data collected by Arcadis on days noted. Parameters listed were typically recorded during compliance monitoring events. Data in this table correspond to approximately the past year of system operation.
2. Instantaneous parameters obtained from the SCADA HMI: Water Flow Rate, Water Pressure, Air Flow Rate.
3. Combined influent water-flow rate is the sum of individual well flow rates via the SCADA System.
4. Remedial Well effluent pressure readings measured at the influent manifold within the treatment system building.
5. Instantaneous values recorded from field-mounted instruments during weekly site visits.
6. Pressure readings recorded as < 1.0 iwc due to pressure being too low for gauge sensitivity.
7. As of August 4, 2022 the RW-1 flow rate presented includes the combined flow rates from wells BCPMW-4-1 and BCPMW-4-2 as additional recovery wells.

ECU	Emission Control Unit
GAC	Granular Activated Carbon
HMI	Human-Machine Interface
RW	Remedial Well
SCADA	Supervisory Control and Data Acquisition
Temp	Temperature
gpm	gallons per minute
iwc	inches of water column
psi	pounds per square inch
^{o}R	degrees Rankine
scfm	standard cubic feet per minute

Table 8
Summary of Groundwater Recovered, VOC Mass Recovered, and VOC Mass Recovery Rates
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

ARCADIS

Operating Period [1]	Volume of Groundwater Recovered (x1,000 gal) [2]					VOC Mass Recovered (lbs) [3]															VOC Mass Recovery Rate (lbs/day) [4]													
						Total VOCs [5]					Project VOCs [6]					Non-Project VOCs [7]					Total VOCs [5]					Project VOCs [6]					Non-Project VOCs [7]				
	RW-1 [8]	RW-2	RW-3	RW-4	Total	RW-1	RW-2	RW-3	RW-4	Total	RW-1	RW-2	RW-3	RW-4	Total	RW-1	RW-2	RW-3	RW-4	Total	RW-1	RW-2	RW-3	RW-4	Total	RW-1	RW-2	RW-3	RW-4	Total	RW-1	RW-2	RW-3	RW-4	Total
System Pilot Test, Shakedown and Startup Totals [9]	137	270	251	150	808	NA	NA	NA	NA	1.1	NA	NA	NA	NA	1.0	NA	NA	NA	NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2010 Totals	15,726	35,127	38,160	15,689	104,702	0.56	172	412	89	672	0.56	171	28	0.10	200	< 0.01	0.17	383	89	469	< 0.01	0.46	1.1	0.24	1.8	< 0.01	0.46	0.075	< 0.01	0.54	< 0.01	< 0.01	1.0	0.24	1.3
2011 Totals	15,218	36,570	37,682	15,196	104,666	0.36	167	271	78	516	0.36	167	35	0.090	203	< 0.01	1.1	236	78	314	< 0.01	0.45	0.73	0.21	1.4	< 0.01	0.45	0.095	< 0.01	0.55	< 0.01	< 0.01	0.64	0.21	0.85
2012 Totals	15,260	35,178	36,111	15,336	101,885	0.28	114	113	40	267	0.25	113	12	0.39	126	< 0.01	1.5	101	40	141	< 0.01	0.31	0.31	0.11	0.73	< 0.01	0.31	0.032	< 0.01	0.35	< 0.01	< 0.01	0.28	0.11	0.39
2013 Totals	15,968	37,514	36,622	16,036	106,140	0.14	111	41	18	171	0.14	110	4.3	0.36	113	< 0.01	1.6	37	18	57	< 0.01	0.30	0.11	0.050	0.47	< 0.01	0.30	0.012	< 0.01	0.31	< 0.01	< 0.01	0.10	0.049	0.16
2014 Totals	15,690	33,222	31,199	15,691	95,802	0.063	67	9.9	8.1	85	0.063	65	2.0	0.20	67	< 0.01	1.5	8.1	7.9	17	< 0.01	0.19	0.028	0.023	0.24	< 0.01	0.18	< 0.01	< 0.01	0.19	< 0.01	< 0.01	0.023	0.022	0.047
2015 Totals	15,859	38,082	34,961	14,755	103,657	0.028	47	7.1	4.5	57	0.021	45	1.5	0.20	45	<0.01	1.7	5.6	4.2	12	<0.01	0.13	0.019	0.012	0.16	<0.01	0.12	<0.01	<0.01	0.12	<0.01	<0.01	0.015	0.012	0.032
2016 Totals	15,826	34,539	39,349	15,826	105,540	<0.01	38	3.2	2.2	44	<0.01	37	1.4	0.20	39	<0.01	1.5	1.7	2.0	5.2	<0.01	0.10	<0.01	<0.01	0.12	<0.01	0.10	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	<0.01	0.014
2017 Totals	16,005	31,600	37,614	15,965	101,184	< 0.01	13	2.2	1.2	17	< 0.01	13	1.1	0.16	14	< 0.01	0.56	1.1	1.1	2.7	< 0.01	0.037	< 0.01	< 0.01	0.046	< 0.01	0.035	< 0.01	< 0.01	0.038	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2018 Totals	15,145	37,712	32,473	14,917	100,247	< 0.01	13.71	0.90	0.56	15.2	< 0.01	13.5	0.70	< 0.01	14.2	< 0.01	0.27	0.19	0.52	0.97	< 0.01	0.038	< 0.01	< 0.01	0.042	< 0.01	0.037	< 0.01	< 0.01	0.039	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2019 Totals	15,456	32,470	38,416	15,343	101,685	< 0.01	11.51	1.36	0.22	13.10	< 0.01	11.51	1.07	< 0.01	12.59	< 0.01	< 0.01	0.29	0.18	0.63	< 0.01	0.032	< 0.01	< 0.01	0.036	< 0.01	0.032	< 0.01	< 0.01	0.034	< 0.01	< 0.01	< 0.01	0.001	< 0.01
2020 Totals	14,475	35,814	37,537	15,113	102,939	< 0.01	19.3	1.3	< 0.01	20.6	< 0.01	19.3	0.91	< 0.01	20.2	< 0.01	< 0.01	0.36	< 0.01	0.36	< 0.01	0.053	< 0.01	< 0.01	0.056	< 0.01	0.053	< 0.01	< 0.01	0.055	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2021 Totals	14,490	36,403	38,153	15,324	104,370	< 0.01	171.4	1.9	0.05	173.3	< 0.01	167.7	1.14	< 0.01	168.9	< 0.01	3.6	0.75	0.11	4.49	< 0.01	1.865	< 0.01	< 0.01	1.886	< 0.01	1.825	< 0.01	< 0.01	1.839	< 0.01	0.04	< 0.01	< 0.01	0.0470
2022 Totals	12,224	36,802	38,231	15,238	102,495	45	53	15	< 0.01	112.3	43.3	51.2	13.1	< 0.01	107.6	1.7	1.3	1.6	0.1	4.8	0.5	0.6	0.2	< 0.01	1.2	0.5	0.6	0.1	< 0.01	1.2	0.02	0.01	< 0.01	< 0.01	0.04
2023 Totals	13,740	33,732	37,815	15,084	100,372	4.75	12.97	8.90	< 0.01	46.88	24.89	12.97	8.47	< 0.01	46.3	0.1	< 0.01	0.3	< 0.01	0.4	0.1	0.14	0.10	< 0.01	0.51	0.27	0.14	0.09	< 0.01	0.51	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
January through March 2024																																			
01/01/24 · 02/01/24	1,058	3,039	3,214	1,259	8,570	0.9	0.45	0.48	< 0.01	1.86	0.9	0.5	0.33	< 0.01	1.7	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	0.030	0.015	0.015	< 0.01	0.060	0.030	0.015	0.011	< 0.01	0.055	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
02/01/24 · 03/01/24	1,017	2,968	3,249	1,254	8,487	0.9	0.44	0.48	< 0.01	1.82	0.9	0.4	0.34	< 0.01	1.7	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	0.031	0.015	0.017	< 0.01	0.063	0.031	0.015	0.012	< 0.01	0.058	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
03/01/24 · 04/01/24	1,145	3,251	3,474	1,319	9,189	1.0	0.48	0.52	< 0.01	2.01	1.0	0.5	0.36	< 0.01	1.9	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	0.033	0.016	0.017	< 0.01	0.065	0.033	0.016	0.012	< 0.01	0.060	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Subtotal Jan - Mar 2024	3,220	9,258	9,937	3,832	26,247	2.8	1.37	1.47	< 0.01	5.68	2.8	1.4	1.04	< 0.01	5.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.031	0.015	0.016	< 0.01	0.062	0.031	0.015	0.011	< 0.01	0.058	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
April through June 2024																																			
04/01/24 · 05/01/24	1,201	3,105	3,323	1,231	8,861	0.6	1.4	1.5	0.6	4.06	0.6	1.4	1.5	0.6	4.1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.018	0.047	0.051	0.019	0.135	0.018	0.047	0.051	0.019	0.135	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
05/01/24 · 06/01/24	815	2,401	2,659	967	6,842	0.4	1.1	1.2	0.4	3.14	0.4	1.1	1.2	0.4	3.1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.012	0.036	0.039	0.014	0.101	0.012	0.036	0.039	0.014	0.101	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
06/01/24 · 07/01/24	1,056	2,971	3,098	1,186	8,311	0.5	1.4	1.4	0.5	3.81	0.5	1.4	1.4	0.5	3.8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.016	0.045	0.047	0.018	0.127	0.016	0.045	0.047	0.018	0.127	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Subtotal Apr - Jun 2024	3,072	8,477	9,080	3,384	24,014	1.4	3.89	4.16	1.55	11.01	1.4	3.9	4.16	1.6	11.0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.015	0.043	0.046	0.017	0.121	0.015	0.043	0.046	0.017	0.121	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
July through September 2024																																			
07/01/24 · 08/01/24	854	3,109	3,171	1,210	8,345	0.7	2.5	2.5	1.0	6.64	0.7	2.5	2.5	1.0	6.6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.022	0.080	0.081	0.031	0.214	0.022	0.080	0.081	0.031	0.214	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
08/01/24 · 09/01/24	246	1,929	2,231	6,905	11,311	0.2	1.5	1.8	5.5	9.00	0.2	1.5	1.8	5.5	9.0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.006	0.050	0.057	0.177	0.290	0.006	0.050	0.057	0.177	0.290	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
09/01/24 · 10/01/24	1,217	4,086	3,873	5,509	14,683	1.0	3.3	3.1	4.4	11.69	1.0	3.3	3.1	4.4	11.7	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.032	0.108	0.103	0.146	0.390	0.032	0.108	0.103	0.146	0.390	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Subtotal Jul - Sep 2024	2,317	9,124	9,275	13,624	34,340	1.8	7.26	7.38	10.84	27.33	1.8	7.3	7.38	10.8	27.3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.020	0.079	0.080	0.118	0.297	0.020	0.079	0.080	0.118	0.297	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
October through December 2024																																			
10/01/24 · 11/01/24	702	3,086	1,565	1,069	6,422	0.87	0.82	0.04	0.02	1.75	0.87	0.82	0.02	0.01	1.73	< 0.01	< 0.01	0.01	< 0.01	0.01	0.03	0.03	< 0.01	0.001	0.06	0.03	0.03	0.00	0.00	0.06	< 0.01	< 0.01	0.00	< 0.01	0.00
11/01/24 · 12/01/24	675	3,206	1,188	1,298	6,366	0.84	0.85	0.03	0.03	1.75	0.84	0.85	0.02	0.02	1.72	< 0.01	< 0.01	0.01	0.01	0.02	0.03	0.03	< 0.01	0.001	0.06	0.03	0.03	0.00	0.00	0.06	< 0.01	< 0.01	0.00	0.00	0.00
12/01/24 · 01/01/25	586	3,056	3,242	1,258	8,142	0.73	0.81	0.07	0.03	1.64	0.73	0.81	0.04	0.02	1.60	< 0.01	< 0.01	0.03	0.01	0.04	0.02	0.03	< 0.01	0.001	0.05	0.02	0.03	0.00	0.00	0.05	< 0.01	< 0.01	0.00	0.00	0.00
Subtotal Oct - Dec 2024	1,963	9,347	5,994	3,625	20,930	2.44	2.48	0.13	0.08	5.13	2.44	2.48	0.08	0.05	5.05	< 0.01	< 0.01	0.06	0.02	0.08	0.03	0.03	< 0.01	< 0.01	0.06	0.03	0.03	0.00	0.00	0.06	< 0.01	< 0.01	0.00	0.00	0.00
2024 Totals	10,572	36,206	34,287	24,464	105,530	9	15	13	12	49	9	15	13	12	49	< 0.01	< 0.01	0.06	0.02	0.08	0.093	0.164	0.142	0.135	0.536	0.093	0.164	0.137	0.135	0.531	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total Since System Start Up	228,383	545,079	565,307	246,702	1,585,471	60	1,301	955	268	2,602	78	1,285	142	14	1,520	2	15	812	254	1,077	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes, Abbreviations, and Units on last page.

Table 8
Summary of Groundwater Recovered, VOC Mass Recovered, and VOC Mass Recovery Rates
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Notes, Abbreviations, Qualifiers, and Units:

1. Represents operating period between consecutive monitoring events.

2. Volume of groundwater recovered is based on individual local well totalized flow readings. Listed value is the difference between totalized flow values recorded between consecutive monitoring events. The total groundwater recovered during a given operating period is the sum of the individual well flow totals. Values shown are rounded to the nearest gallon, but should only be considered accurate to two significant figures to account for error associated with field measurements.

3. Mass recovered per well was calculated by multiplying the Total VOC concentration from the most recent sampling event by the number of gallons extracted during the reporting period. The total amount recovered during a given operating period is the sum of masses recovered from each of the individual wells. Values less than ten pounds are presented using two significant figures and values greater than ten pounds have been rounded to the nearest whole number; however, these values should only be considered accurate to two significant figures to account for error associated with field measurements and analytical data.

4. Mass recovery rates were calculated by dividing the total mass recovered for each well and for the system by the number of days in the respective operating period. Values are presented using two significant figures.

5. "Total VOCs" represents the sum of individual concentrations of the VOCs detected.

6. "Project VOCs" represents the sum of individual compound concentrations of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; tetrachloroethene; trichloroethelyene; vinyl chloride; cis-1,2-dichloroethene; trans-1,2-dichloroethene; benzene; toluene; and xylenes-o,m, p.

7. "Non-Project VOCs" represents the difference between Total VOCs and Project VOCs.

8. Values based on operational data recorded prior to system startup on July 21, 2009.

9. As of August 4, 2022 the RW-1 volume of groundwater recovered and concentration are representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

NA	Not Applicable
VOC	Volatile Organic Compound.
<	Less than
gal	Gallons
lbs	Pounds
lbs/day	Pounds per day

Table 9
2024 Rule 212 Evaluation
Bethpage Park Soil Gas Containment System, Groundwater Containment System, and ISTR
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Project VOCs	CAS#	HTAC?[1]	2024 BPGWCS Maximum Effluent Conc. (ug/m3)[2,8]	2024 BPSGCS Maximum Effluent Conc. (ug/m3)[2,5,8]	2024 Phase 2 ISTR Maximum Effluent Conc. (ug/m3)[2,8]	2024 BPGWCS Emissions (lb/yr)[4]	2024 BPSGCS Emissions - not combined with ISTR (lb/yr)[4]	2024 Phase 2 ISTR Maximum Effluent Conc. (lb/yr)[4]	Facility Wide Emissions (lb/yr)[5]	Rule 212 Emission Limit (lb/yr)[6]	Further evaluation Required?[7]
1,1,1-Trichloroethane	71-55-6	No		5.5		0.000	1.276	0.000	1.276	100	N
1,1 - Dichloroethane	75-34-3	No	2.4	6.1		0.099	1.415	0.000	1.514	100	N
1,1 - Dichloroethene	75-35-4	No	1.3	0.59		0.054	0.137	0.000	0.190	100	N
Benzene	71-43-2	Yes	0.51	1.4	6.8	0.021	0.325	0.031	0.377	100	N
cis- 1,2-Dichloroethene	156-59-2	No	138	149	1.14	5.684	34.571	0.005	40.260	100	N
Tetrachloroethene	127-18-4	Yes	5.9	9.5	71.3	0.243	2.204	0.322	2.769	1000	N
Toluene	108-88-3	No	2.1	3.2	15.6	0.087	0.742	0.070	0.899	100	N
trans- 1,2-Dichloroethene	156-60-5	No	1.1	3.7		0.045	0.858	0.000	0.904	100	N
Trichloroethene	79-01-6	Yes	29	229	12	1.195	53.132	0.052	54.379	500	N
Vinyl Chloride	75-01-4	Yes	6.1	0.68	114	0.251	0.158	0.514	0.923	100	N
Xylenes[3]	1330-20-7	No	4.4	1.48	28	0.180	0.343	0.125	0.648	100	N
Non-Project VOCs											
1,1,2-Trichlorotrifluoroethane	76-13-1	No			2.2	0.000	0.000	0.010	0.010	100	N
1,2,4-Trimethylbenzene	95-63-6	No			9.2	0.000	0.000	0.041	0.041	100	N
1,3,5-Trimethylbenzene	108-67-8	No			2.7	0.000	0.000	0.012	0.012	100	N
2,2,4-Trimethylpentane	540-84-1	No			4.9	0.000	0.000	0.022	0.022	100	N
2-Butanone (MEK)	78-93-3	No			7.1	0.000	0.000	0.032	0.032	100	N
2-Propanol	67-63-0	No			241.0	0.000	0.000	1.087	1.087	100	N
4-Ethyltoluene	622-96-8	No			2.3	0.000	0.000	0.010	0.010	100	N
Cyclohexane	110-82-7	No			5.6	0.000	0.000	0.025	0.025	100	N
Ethanol	64-17-5	No			488.0	0.000	0.000	2.201	2.201	100	N
Heptane	142-82-5	No			6.4	0.000	0.000	0.029	0.029	100	N
Isopropylbenzene	98-82-8	No			10.7	0.000	0.000	0.048	0.048	100	N
Methyl methacrylate	80-62-2	No			1.1	0.000	0.000	0.005	0.005	100	N
n-Hexane	110-54-3	No			13.8	0.000	0.000	0.062	0.062	100	N
Propene	115-07-1	No			258.0	0.000	0.000	1.164	1.164	100	N
Tetrahydrofuran	109-99-9	No			4.3	0.000	0.000	0.019	0.019	100	N
1-Chloro-1,1-difluoroethane (Freon 142B)	75-68-3	No	0.35	106		0.014	24.594	0.000	24.608	100	N
2-Butanone	78-93-3	No	21	4.1		0.865	0.951	0.000	1.816	100	N
Acetone	67-64-1	No	43.5	25.2	102	1.792	5.847	0.460	8.099	100	N
Carbon Disulfide	75-15-0	No			7	0.000	0.000	0.032	0.032	100	N
Carbon Tetrachloride	56-23-5	Yes	0.82	0.69		0.034	0.160	0.000	0.194	100	N
Chlorodifluoromethane (Freon 22)	75-45-6	No	3.5	0.98		0.144	0.227	0.000	0.372	100	N
Chloroethane	75-00-3	No			2.8	0.000	0.000	0.013	0.013	100	N
Chloromethane	74-87-3	No	9.5	1.4	256	0.391	0.325	1.155	1.871	100	N
Chloroform	67-66-3	Yes	8.3	16		0.342	3.712	0.000	4.054	100	N
Dichlorodifluoromethane (Freon 12)	75-71-8	No	2.6	2.7	4.61	0.107	0.626	0.021	0.754	100	N
Ethylbenzene	100-41-4	No	0.61		3.92	0.025	0.000	0.018	0.043	100	N
Methylene Chloride	75-09-2	No	2.1	79.2	30.5	0.087	18.376	0.138	18.600	100	N
Styrene (Monomer)	100-42-5	No		2.5	7.53	0.000	0.580	0.034	0.614	100	N
Trichlorofluoromethane (Freon 11)	75-69-4	No	1.7	2.0	2.38	0.070	0.464	0.011	0.545	100	N
Trichlorotrifluoroethane (Freon 113)	76-13-1	No		0.68		0.000	0.000	0.000	0.000	100	N

Footnotes on next page

Table 9
2024 Rule 212 Evaluation
Bethpage Park Soil Gas Containment System, Groundwater Containment System, and ISTR
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Flowrates

Description	Flow (cfm)
BPGWCS	1,258
BPSGCS	7,086
ISTR Phase 2	445

Notes:

1. High toxicity air contaminant (HTAC) based on 6 CRR-NY Rule 212-2.2, Table 2 – high toxicity air contaminant list.

2. Maximum effluent concentrations for soil gas effluent from VSP-601, GW vapor from VSP-05, and treated vapor from deep vapor extraction wells in ISTR Treatment Area 3 and 4 based on sampling performed in 2024. Compounds not detected above the laboratory reporting limit are excluded from the air quality impact analysis summary.

3. Total for xylenes m, o, and P.

4. Emission rate calculated based on maximum effluent concentration and maximum air flow rates measured during the sampling events. Emission rate standardized at 70 ^{o}F and 1 atm.

   e.g., TCE (lb/yr) = TCE [µg/m^3] x Air Flow Rate [ft^3/min] x (1 m^3/35.3147 ft^3) x (60 min/hr) x (0.000001 g/1 µg) x (0.0022 lb/g) x 8,760 hrs/yr

5. Combined 2024 emissions from shallow horizontal wells in ISTR Treatment Area 4 and soil gas containment systems. The Phase 2 ISTR system was started up on September 10, 2024.

6. 100 lb/yr for non-HTACs, and mass emission limits based on Rule 212-2.2, Table 2 for HTACs.

7. For HTACs, no further demonstration (i.e., comparison to SGCs, AGCs, or air modeling) is required if the actual facility-wide emissions are less than mass emission limit. For non-HTACs, no further demonstration is required if the actual facility-wide emissions are less than 100 lbs/yr.

8. Blank cell indicates that the compound was not detected above its laboratory quantification limit.

Table 10
Summary of Remedial Well Groundwater Sample Analytical Results - VOCs
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Compound[1] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: NYSDEC SCGs	RW-1 2/22/2024	RW-1 5/15/2024	RW-1 8/7/2024	RW-1 11/13/2024	RW-2 2/22/2024	RW-2 5/15/2024	RW-2 8/7/2024	RW-2 11/13/2024	RW-3 2/22/2024	RW-3 5/15/2024	RW-3 8/7/2024	RW-3 11/13/2024	RW-4 2/22/2024	RW-4 5/15/2024	RW-4 8/7/2024	RW-4 11/13/2024
Project VOCs																	
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	**0.84 J**	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 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	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichloroethylene	5	**52.5**	**30.0**	**44.5**	**57.0**	**8.4**	**6.8**	**12.7**	**12.9**	**6.5**	**5.6**	**3.4**	**0.97 J**	< 1.0	< 1.0	< 1.0	<1.0
Vinyl Chloride	2	**3.6**	**0.61 J**	**1.5**	**4.6**	**1.1**	**0.61 J**	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
cis-1,2-dichloroethene	5	**48.9**	**24.4**	**49.5**	**85.9**	**8.3**	**10.5**	**16.0**	**19.0**	**6.0**	**6.0**	**2.9**	**0.61 J**	< 1.0	< 1.0	< 1.0	<1.0
trans-1,2-dichloroethene	5	**0.67 J**	< 1.0	< 1.0	**0.86 J**	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Benzene	1	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50
Toluene	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Xylene-o	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Xylenes-m,p	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Subtotal Project VOCs		**105.7**	**55.0**	**95.5**	**149.2**	**17.8**	**17.9**	**28.7**	**31.9**	**12.5**	**11.6**	**6.3**	**1.58**	**ND**	**ND**	**ND**	**ND**
Non-Project VOCs																	
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
1,3-Butadiene	0.5	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	< 1.0	< 1.0	< 1.0	<5.0	< 5.0	< 1.0	< 1.0	<5.0
2-Butanone	NE	< 10	< 10	< 10	<10	< 10	< 10	< 10	<10	< 1.0	< 1.0	< 1.0	<10	< 10	< 1.0	< 1.0	<10
4-methyl-2-pentanone	50	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	< 1.0	< 1.0	< 1.0	<5.0	< 5.0	< 1.0	< 1.0	<5.0
Acetone	NE	< 10	< 10	< 10	<10	< 10	< 10	< 10	<10	< 1.0	< 1.0	< 1.0	<10	< 10	< 1.0	< 1.0	<10
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	< 2.0	< 1.0	< 1.0	<2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	< 2.0	< 1.0	< 1.0	<2.0
Carbon tetrachloride	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorodifluoromethane (Freon 22)	NE	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	< 1.0	< 1.0	< 1.0	<5.0	**0.55 J**	**0.58 J**	< 1.0	<5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	**0.86 J**	**1.1**	< 1.0	< 1.0	< 1.0	<1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
cis-1,3-dichloropropene	0.4	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Dichlorodifluoromethane (Freon 12)	5	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	< 2.0	< 1.0	< 1.0	<2.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	< 2.0	< 1.0	< 1.0	<2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Methyl N-Butyl Ketone	50	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	< 1.0	< 1.0	< 1.0	<5.0	< 5.0	< 1.0	< 1.0	<5.0
Methyl tert-Butyl Ether	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Styrene	5	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
trans-1,3-dichloropropene	0.4	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichlorofluoromethane (Freon 11)	5	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	< 2.0	< 1.0	< 1.0	<2.0
Trichlorotrifluoroethane (Freon 113)	5	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	< 1.0	< 1.0	< 1.0	<5.0	< 5.0	< 1.0	< 1.0	<5.0
1-Chloro-1,1-difluoroethane (Freon 142b)	NE	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	< 1.0	< 1.0	< 1.0	<5.0	< 5.0	< 1.0	< 1.0	<5.0
Subtotal Non-Project VOCs		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.86**	**1.1**	**0.55**	**0.58**	**ND**	**ND**
Total VOCs[2,3]		**105.7**	**55.0**	**95.5**	**149.2**	**17.8**	**17.9**	**28.7**	**31.9**	**12.5**	**11.6**	**7.2**	**2.7**	**0.55**	**0.58**	**ND**	**ND**
1,4-Dioxane		**2.3**	**1.4**	**2.0**	**7.3**	**2.2**	**0.34**	**0.29**	< 0.24	< 0.24	**0.34**	**0.29**	< 0.24	< 0.24	**0.26**	**0.16 J**	< 0.24

Notes, Abbreviations, Qualifiers, and Units on last page.

Table 10
Summary of Remedial Well Groundwater Sample Analytical Results - VOCs
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Northrop Grumman,
Bethpage, New York

Notes, Abbreviations, Qualifiers, and Units:

1. Water samples collected by Arcadis on the dates shown and submitted to a NYSDOH ELAP certified laboratory for VOC analyses per NYSDEC ASP 2005, Method OLM 4.3 (prior to September 1, 2014) and per USEPA Method 8260C (after September 1, 2014). Results validated following protocols specified in Sampling and Analysis Plan in the DRAFT Bethpage Park Groundwater Containment System OM&M Manual (Arcadis 2016). See previous quarterly reports for historical analytical results.

2. "Total VOCs" represents the sum of individual concentrations of the VOCs detected.

3. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

ASP	Analytical Services Protocol
ELAP	Environmental Laboratory Approval Program
NE	Not Established
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OLM	Ozone Limited Method
OM&M	Operation, Maintenance, and Monitoring
SCGs	Standards, Criteria, and Guidance values
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
	Bold cell outline indicates an exceedance of an SCG
3.6	Bold data indicates a detection
< 1.0	Compound not detected above its laboratory quantification limit
J	Compound detected below its reporting limit; value is estimated
ND	Analyte not detected at, or above its laboratory quantification limit.
µg/L	micrograms per liter

Table 11
Summary of Water-Level Elevations
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Bethpage, New York

Well/Piezometer Identification (All Elevations in ft msl) Recovery Wells	Measuring Point Elevation	1Q 2024 2/8/2024	2Q 2024 5/16/2024	3Q 2024 8/13/2024	4Q 2024 11/26/2024	Comments
RW-1	125.18	70.25	--	--	72.17	Unable to open vault 5/16/24 & 8/13/24
RW-2	124.48	70.04	62.89	61.38	60.82	
RW-3	122.84	69.83	69.85	57.88	67.64	
RW-4	121.24	68.77	--	--	--	Could not open vault on 5/16/24, 8/13/2024, 11/26/24
BCPMW-4-1 (1)	123.33 (3)	68.63	69.74	--	--	WLM did not fit through port (8/13/24 & 11/26/24)
BCPMW-4-2 (1)	123.36 (3)	68.83	70.15	--	--	WLM did not fit through port (8/13/24 & 11/26/24)
Monitoring Wells						
B24MW-2	126.96	73.24		75.48	73.60	
B24MW-3	127.11	72.80		75.71		Well submerged in surface water (11/26/24)
B30MW-1	128.33	72.14	76.11	75.05	73.61	
BCPMW-1	125.73	--	--	--	--	Abandoned
BCPMW-2	126.39	--	--	--	--	Can not locate
BCPMW-3	124.94	--	--	--	72.30	
BCPMW-4-3	129.20	70.09	74.33	73.64	72.11	
BCPMW-5-1	129.37	--	--	--	--	destroyed
BCPMW-6-1	126.01	70.48	74.04	73.19	71.74	
BCPMW-6-2	125.16	70.20	73.71	72.82	71.44	
BCPMW-7-1	124.81	70.40	74.00	73.04	71.64	
MW-200-1	123.49	70.87	74.30	73.57	74.52	
MW-201-1	121.69	70.52	74.05	73.17	72.45	
MW-202-1	119.27	70.45	74.04	73.08	71.74	
MW-203-1	118.25	70.38	73.99	72.97	71.65	
MW-204-1	124.95	70.70	74.22	73.49	75.45	
MW-205-1	123.47	70.44	73.95	73.12	74.31	
MW-206-1	120.80	70.44	74.01	73.06	72.69	
MW-207A-1R(2)	120.38	70.22	73.80	72.84	71.74	
MW-207B-1R(2)	120.48	70.39	73.75	73.09	71.69	
MW-208-1	118.56	70.37	73.50	72.55	72.18	

Table 11
Summary of Water-Level Elevations
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Bethpage, New York

Well/Piezometer Identification (All Elevations in ft msl) Recovery Wells	Measuring Point Elevation	1Q 2024 2/8/2024	2Q 2024 5/16/2024	3Q 2024 8/13/2024	4Q 2024 11/26/2024	Comments
Piezometers						
PZ-1a	128.82	70.29	73.91	73.96	71.44	
PZ-1b	128.92	70.41	74.32	73.28	71.78	
PZ-1c	128.96	70.58	74.61	73.61	72.10	
PZ-2a	128.36	70.47	73.96	73.25	71.75	
PZ-2b	128.37	70.43	74.06	73.19	71.68	
PZ-2c	128.55	70.71	77.42	73.55	71.99	
PZ-3	124.99	70.37	73.65	50.48	45.49	
PZ-4	125.31	70.43	71.04	51.72	45.99	
PZ-5a	129.07	71.36	74.80	74.26	72.80	
PZ-5b	129.06	71.31	74.95	74.20	72.61	
PZ-5c	128.84	71.27	77.02	74.16	72.42	
PZ-6a	125.67	70.27	--	--	71.54	Stuck cap 5/16/24 & 8/13/24
PZ-6b	125.74	70.48	74.81	59.25	71.56	
PZ-7a	125.10	69.58	74.00	73.25	71.84	
PZ-7b	125.06	69.38	72.85	72.94	71.62	
PZ-8a	127.63	70.23	73.94	73.03	71.52	
PZ-8b	127.54	70.27	74.07	73.04	71.57	
PZ-8c	127.57	70.56	--	73.30	71.85	
PZ-9a	125.30	--	--	--	--	Abandoned
PZ-10a	125.27	72.23	--	74.17	72.76	

Notes and Abbreviations:

1. Baseline readings were taken prior to system startup, which occurred on July 21, 2009.
2. Wells installed by EMAGIN in 2017 to replace monitoring wells MW-207-1a (replaced by MW-207A-1R) and MW-207-1b (replaced by MW-207B-1R) installed by ERM in 2015.
3. Wells resurveyed following conversion to recovery wells. Lower elevations applied to Q3 and Q4 measurements.

ft msl Feet relative to mean sea level

NM Not measured due to In-Situ Thermal Remediation activities

-- Not measured

NA Not Accessible

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	B24MW-2 12/29/2016 B24MW-2	B24MW-2 8/4/2017 B24MW-2	B24MW-2 8/9/2018 B24MW-2	B24MW-2 7/18/2019 B24MW-2	B24MW-2 7/16/2020 B24MW-2	B24MW-2 7/23/2021 B24MW-2	B24MW-2 7/20/2022 B24MW-2	B24MW-2 7/20/2022 REP200722PQ	B24MW-2 7/18/2023 B24MW-2	B24MW-2 7/17/2024 B24MW-2	B24MW-2 7/25/2024 B24MW-2	B24MW-2 8/20/2024 B24MW-2	B24MW-2 11/7/2024 B24MW-2	B24MW-2 12/4/2024 B24MW-2	B24MW-3 1/20/2017 B24MW-3	B24MW-3 8/2/2017 B24MW-3	B24MW-3 8/9/2018 B24MW-3	B24MW-3 7/16/2019 B24MW-3
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	<1 J	<1	<1	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0 J	<5.0	<5.0	--	--	--	--	--	--	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	--	--	--	--	< 5.0	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10 J	<10	<10	--	<5	<5	<5	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	<5	<5	<5	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10 J	<10	<10	--	<5	<5	<5	< 10	< 10	< 10	< 10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	--	<1	<1	<1	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	<1	<1	<1	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	<1	<1	<1	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	<1 J	<1	<1	< 2.0	< 2.0	< 2.0	< 2.0
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0 J	<2.0	<2.0	--	<1 J	<1 J	<1	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0 J	<5.0	<5.0	--	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**0.44 J**	**0.6 J**	**0.56 J**	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	<1.0	<1.0	--	<1 J	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.64 J**	**0.57 J**	<1.0	<1.0	--	<1	**0.49 J**	**0.37 J**	< 1.0	**0.59 J**	< 1.0	**3.2**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	<1	<1	<1	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	<5	<5	<5	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	**0.25 J**	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	<1	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**2.4**	**2.1**	**2.5**	**4.0**	**6.1**	**4.2**	**4.1**	**4.5**	**2.1**	**5.2**	--	**8.4**	**8.6**	**7.9**	< 1.0	< 1.0	< 1.0	**1.3**
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	<1.0	<1.0	--	<1 J	<1	<1	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		**2.4**	**2.1**	**2.5**	**4**	**6.1**	**4.2**	**4.74**	**5.07**	**2.1**	5.2	0	8.84	9.94	9.06	**0**	**0.59**	**0**	**4.5**
Project VOCs[5]		**2.4**	**2.1**	**2.5**	**4**	**6.1**	**4.2**	**4.74**	**5.07**	**2.1**	5.2	0	8.4	9.09	8.27	**0**	**0.59**	**0**	**4.5**
1,4-Dioxane[6]		**--**	**--**	**0.16 J**	**0.29**	**0.91**	**0.52**	**0.85**	**0.82**	**0.41**	**--**	**0.64**	**--**	**--**	**--**	**--**	**--**	**0.11 J**	**< 0.24**

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	B24MW-3 7/9/2020 B24MW-3	B24MW-3 7/21/2021 B24MW-3	B24MW-3 7/20/2022 B24MW-3	B24MW-3 7/20/2023 B24MW-3	B24MW-3 7/16/2024 B24MW-3	B30MW-1 1/4/2017 B30MW-1	B30MW-1 8/3/2017 B30MW-1	B30MW-1 8/9/2018 B30MW-1	B30MW-1 7/17/2019 B30MW-1	B30MW-1 7/21/2020 B30MW-1	B30MW-1 7/23/2021 B30MW-1	B30MW-1 7/20/2022 B30MW-1	B30MW-1 7/18/2023 B30MW-1	B30MW-1 7/17/2024 B30MW-1	B30MW-1 7/26/2024 B30MW-1	BCPMW-4-1 12/28/2016 BCPMW-4-1	BCPMW-4-1 7/31/2017 BCPMW4-1	BCPMW-4-1 7/24/2018 BCPMW-4-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**0.36 J**	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**3.2**	**1.6**	**0.87 J**
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**0.42 J**	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**0.87 J**	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0 J	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	<5.0	<5.0	--	--	--	< 5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	--	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10 J	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	<10	<10	--	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0	< 5.0	< 5.0
Acetone	50	< 10	< 10	< 10 J	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	<10	<10	--	< 10	< 10	< 10
Benzene	1	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	--	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0	< 2.0	< 2.0
CFC-12	5	< 2.0	< 2.0	< 2.0 J	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	<2.0	<2.0	--	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0 J	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	<5.0	<5.0	--	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**1.4**	**0.76 J**	< 1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0 J	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**81.4**	**53.5**	**30.7**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**0.50 J**	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**0.49 J**	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	**48.2**	**21.9**	**13.5**
Vinyl chloride	2	< 1.0	< 1.0	< 1.0 J	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	<1.0	<1.0	--	**3.3**	< 1.0	< 1.0
Total VOCs[4]		**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**140.14**	**77.76**	**45.07**
Project VOCs[5]		**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	0	0	**138.74**	**77**	**45.07**
1,4-Dioxane[6]		**0.31**	**0.10 J**	**0.25**	**<0.23**	**<0.24**	**--**	**--**	**< 0.24**	**< 0.24**	**< 0.24**	**< 0.24**	**< 0.24**	**<0.23**	**--**	**<0.23**	**--**	**--**	**0.68**

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-1 7/11/2019 BCPMW-4-1	BCPMW-4-1 7/20/2020 BCPMW4-1	BCPMW-4-1 7/20/2021 BCPMW4-1	BCPMW-4-1 4/8/2022 BCPMW-4-1	BCPMW-4-1 5/2/2022 BCPMW-4-1	BCPMW-4-1 2/2/2023 BCPMW-4-1	BCPMW-4-1 2/8/2023 BCPMW-4-1	BCPMW-4-1 2/16/2023 BCPMW-4-1	BCPMW-4-1 2/23/2023 BCPMW-4-1	BCPMW-4-1 3/2/2023 BCPMW-4-1	BCPMW-4-1 3/8/2023 BCPMW-4-1	BCPMW-4-1 3/17/2023 BCPMW-4-1	BCPMW-4-1 3/24/2023 BCPMW-4-1	BCPMW-4-1 3/31/2023 BCPMW-4-1	BCPMW-4-1 5/12/2023 BCPMW-4-1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	< 1.0	**1.4**	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 130	< 250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	**0.73 J**	**6.2**	**3.4**	**15.9 J**	< 50	**1.9**	**1.8**	**1.9**	**2.2**	**2.0**	**2.8**	**2.5**	**2.7**	**2.5**	**1.6**
1,1-Dichloroethene	5	< 1.0	< 1.0	**0.60 J**	**73.4**	**65.5**	**1.8**	**1.4**	**1.7**	**2.0**	**2.1**	**2.7**	**2.3**	**2.2**	**2.7**	**2.9**
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0	< 130	< 250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	< 130	< 250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 250	< 500	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 130	< 250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	< 10	< 10	< 10	**104 J**	< 500	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	< 0.50	< 0.50	< 0.50	**31.2**	**26.5**	**1.0**	**1.0**	**1.2**	**1.4**	**1.4**	**1.9**	**1.6**	**1.6**	**2.0**	**2.6**
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 50	< 100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 50	< 100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	< 2.0	< 2.0	< 2.0	< 50	< 100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 130	< 250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 25	< 50	**0.56 J**	**0.55 J**	**0.63 J**	**0.57 J**	**<1.0**	**0.67 J**	**0.62 J**	**0.56 J**	**0.51 J**	<1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**20.7**	**96.7**	**38.6**	**8570**	**5060**	**192**	**183**	**242**	**271**	**257**	**289**	**249**	**256**	**267**	**267**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 50	< 100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	**728**	**639**	**36.0**	**31.9**	**25.9**	**23.3**	**21.7**	**22.9**	**18.3**	**16.4**	**16.1**	**5.6**
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	**2480**	**2180**	**5.2**	**3.6**	**2.7**	**3.0**	**1.9**	**1.4**	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 130	< 250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	**1090**	**857**	**5.2**	**4.0**	**1.7**	**0.83 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 25	< 50	**0.75 J**	**0.82 J**	**0.66 J**	**0.81 J**	**0.75 J**	**0.80 J**	**0.74 J**	**0.67 J**	**0.91 J**	<1.0
Toluene	5	< 1.0	< 1.0	< 1.0	**9810**	**9690 D**	**2.7**	**1.4**	**0.91 J**	**1.0**	**0.51 J**	**0.68 J**	**0.52 J**	**0.55 J**	**0.56 J**	<1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	**0.99 J**	**52.4**	**52.9**	**4.0**	**4.0**	**4.1**	**4.5**	**4.6**	**5.9**	**5.6**	**5.8**	**5.5**	**4.8**
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 25	< 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**8.9**	**32.9**	**46.8**	**226**	**132**	**288**	**287**	**302**	**316**	**310**	**306**	**262**	**267**	**312**	**77.0**
Vinyl chloride	2	< 1.0	**5.6**	**6.8**	**263**	**234**	**20.7**	**16.0**	**19.9**	**23.3**	**23.6**	**38.1**	**28.7**	**29.1**	**29.9**	**74.8**
Total VOCs[4]		**30.33**	**142.8**	**97.19**	**23443.9**	**18936.9**	**559.81**	**536.47**	**605.3**	**649.91**	**625.56**	**672.85**	**571.88**	**582.58**	**639.68**	**436.3**
Project VOCs[5]		**30.33**	142.8	97.19	22611.9	18297.9	**559.81**	**536.47**	**605.3**	**649.91**	**625.56**	**672.85**	**571.88**	**582.58**	**639.68**	**436.3**
1,4-Dioxane[6]		**7.4**	**31**	**15**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-1 5/19/2023 BCPMW-4-1	BCPMW-4-1 5/26/2023 BCPMW-4-1	BCPMW-4-1 6/2/2023 BCPMW-4-1	BCPMW-4-1 6/9/2023 BCPMW-4-1	BCPMW-4-1 6/16/2023 BCPMW-4-1	BCPMW-4-1 6/23/2023 BCPMW-4-1	BCPMW-4-1 6/29/2023 BCPMW-4-1	BCPMW-4-1 7/13/2023 BCPMW-4-1	BCPMW-4-1 7/21/2023 BCPMW-4-1	BCPMW-4-1 7/28/2023 BCPMW-4-1	BCPMW-4-1 8/3/2023 BCPMW-4-1	BCPMW-4-1 8/9/2023 BCPMW-4-1	BCPMW-4-1 8/18/2023 BCPMW-4-1	BCPMW-4-1 9/21/2023 BCPMW-4-1	BCPMW-4-1 9/29/2023 BCPMW-4-1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**4.8**	**3.1**	**2.2**	**2.0**	**0.70 J**	**2.8**	<1.0	**1.8**	1.5	**1.1**	**1.1**	**1.1**	**0.92 J**	**0.76 J**	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**6**	**3.1**	**2.2**	**2**	**0.7**	**2.8**	**0**	**1.8**	**1.5**	**1.1**	**1.1**	**1.1**	**0.92**	**0.76**	0
Project VOCs[5]		**6**	**3.1**	**2.2**	**2**	**0.7**	**2.8**	**0**	**1.8**	**1.5**	**1.1**	**1.1**	**1.1**	**0.92**	**0.76**	0
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-1 10/3/2023 BCPMW-4-1	BCPMW-4-1 10/27/2023 BCPMW-4-1	BCPMW-4-1 11/10/2023 BCPMW-4-1	BCPMW-4-1 11/17/2023 BCPMW-4-1	BCPMW-4-1 11/22/2023 BCPMW-4-1	BCPMW-4-1 12/8/2023 BCPMW-4-1	BCPMW-4-1 12/21/2023 BCPMW-4-1	BCPMW-4-1 12/28/2023 BCPMW-4-1	BCPMW-4-1 1/5/2024 BCPMW-4-1	BCPMW-4-1 1/11/2024 BCPMW-4-1	BCPMW-4-1 1/19/2024 BCPMW-4-1	BCPMW-4-1 1/25/2024 BCPMW-4-1	BCPMW-4-1 2/1/2024 BCPMW-4-1	BCPMW-4-1 2/8/2024 BCPMW-4-1	BCPMW-4-1 2/15/2024 BCPMW-4-1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	2.3	2.6	2.7	3.5	4.0	2.5	2.6	2.6	2.3	2.3	2.1	2.0	1.9
1,1-Dichloroethene	5	<1.0	<1.0	2.7	2.4	2.3	2.2	3.0	1.7	1.7	1.7	1.5	1.4	1.2	1.3	1.3
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	1.7	1.1	0.79	0.90	1.6	0.81	0.74	0.67	0.52	0.49 J	0.50	0.48 J	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	0.52 J	0.79 J	<1.0	0.74 J	0.87 J	0.85 J	0.83 J	<1.0	<1.0	<1.0	0.57 J	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	422	286	280	340	461	288	224	303	217	229	227	183	167
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	5.9	6.0	4.9	1.3	<1.0	<1.0	<1.0	<1.0	0.64 J	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	0.81 J	0.97 J	0.99 J	1.1	0.83 J	0.85 J	0.85 J	0.76 J	0.75 J	0.72 J	0.64 J	0.71 J	0.76 J
Toluene	5	<1.0	<1.0	0.52 J	<1.0	0.57 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	5.8	6.0	5.3	5.5	6.3	4.1	3.9	4.1	3.3	3.6	2.8	2.8	2.6
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	319	355	369	394	293	284	234	269	192	183	228	195	157
Vinyl chloride	2	<1.0	<1.0	33.7	25.0	26.1	32.0	48.4	24.8	25.2	20.8	20.4	18.7	16.8	15.1	13.5
Total VOCs[4]		0	0	794.95	685.86	692.65	781.24	819	608.31	493.82	602.63	438.41	439.21	479.61	400.39	344.06
Project VOCs[5]		0	0	794.95	685.86	692.65	781.24	819	608.31	492.99	602.63	437.77	439.21	479.04	400.39	344.06
1,4-Dioxane[6]		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-1 2/22/2024 BCPMW-4-1	BCPMW-4-1 2/29/2024 BCPMW-4-1	BCPMW-4-1 3/7/2024 BCPMW-4-1	BCPMW-4-1 3/14/2024 BCPMW-4-1	BCPMW-4-1 3/21/2024 BCPMW-4-1	BCPMW-4-1 4/5/2024 BCPMW-4-1	BCPMW-4-1 4/11/2024 BCPMW-4-1	BCPMW-4-1 4/18/2024 BCPMW-4-1	BCPMW-4-1 4/26/2024 BCPMW-4-1	BCPMW-4-1 5/2/2024 BCPMW-4-1	BCPMW-4-1 5/9/2024 BCPMW-4-1	BCPMW-4-1 6/7/2024 BCPMW-4-1	BCPMW-4-1 6/14/2024 BCPMW-4-1	BCPMW-4-1 6/20/2024 BCPMW-4-1	BCPMW-4-1 6/27/2024 BCPMW-4-1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	**1.9**	**1.9**	**1.9**	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.4**	**1.7**	**1.7**	**0.89 J**	**1.4**	**1.5**	**1.6**
1,1-Dichloroethene	5	**1.1**	**1.0**	**1.1**	**0.62 J**	**0.77 J**	**0.65 J**	<1.0	<1.0	<1.0	**0.74 J**	<1.0	<1.0	**0.73 J**	**0.78 J**	**0.79 J**
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	**0.52 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**149**	**164**	**183**	**180**	**144**	**146**	**110**	**94.9**	**110**	**131**	**160**	**82.6**	**127**	**132**	**144**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**0.65 J**	**0.67 J**	**0.62 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	**2.3**	**2.4**	**2.7**	**2.1**	**1.7**	**1.8**	**1.3**	**1.1**	**1.9**	**1.8**	**1.5**	**0.91 J**	**1.4**	**1.6**	**3.9**
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**140**	**152**	**182**	**147**	**141**	**114**	**106**	**95.4**	**103**	**120**	**122**	**77.5**	**117**	**128**	**142**
Vinyl chloride	2	**11.9**	**13.0**	**11.5**	**7.2**	**6.7**	**6.2**	**4.0**	**3.1**	**4.7**	**5.3**	**5.7**	**2.0**	**3.6**	**4.1**	**4.2**
Total VOCs[4]		**306.85**	**334.97**	**383.34**	**338.42**	**295.57**	**269.95**	**222.6**	**195.6**	**221**	**260.54**	**290.9**	**163.9**	**251.13**	**267.98**	**296.49**
Project VOCs[5]		**306.85**	**334.97**	**382.82**	**338.42**	**295.57**	**269.95**	**222.6**	**195.6**	**221**	**260.54**	**290.9**	**163.9**	**251.13**	**267.98**	**296.49**
1,4-Dioxane[6]		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane
in Groundwater Samples Collected from Monitoring Wells,
Bethpage Park Grondwater Containment System,
OU3 (Former Settling Ponds)
Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-1 7/3/2024 BCPMW-4-1	BCPMW-4-1 7/11/2024 BCPMW-4-1	BCPMW-4-1 7/19/2024 BCPMW-4-1	BCPMW-4-1 7/26/2024 BCPMW-4-1	BCPMW-4-1 8/1/2024 BCPMW-4-1	BCPMW-4-1 8/9/2024 BCPMW-4-1	BCPMW-4-1 8/15/2024 BCPMW-4-1	BCPMW-4-1 8/22/2024 BCPMW-4-1	BCPMW-4-1 8/28/2024 BCPMW-4-1	BCPMW-4-1 9/5/2024 BCPMW-4-1	BCPMW-4-1 9/19/2024 BCPMW-4-1	BCPMW-4-1 9/26/2024 BCPMW-4-1	BCPMW-4-1 10/3/2024 BCPMW-4-1	BCPMW-4-1 10/11/2024 BCPMW-4-1	BCPMW-4-1 10/18/2024 BCPMW-4-1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	**1.7**	**2.0**	**2.7**	**2.9**	**2.8**	**3.1**	<1.0	**3.4**	**3.7**	**4.1**	**4.9**	**5.1**	**3.9**	**4.0**	**4.5**
1,1-Dichloroethene	5	**0.82 J**	**0.95 J**	**1.3**	**1.2**	**1.2**	**1.2**	<1.0	**1.2**	**0.93 J**	**1.6**	**1.8**	**1.6**	**1.2**	**1.2**	**1.2**
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.55 J**	<1.0	**0.71 J**	<1.0	**1.1**	**0.72 J**	**0.70 J**	**0.74 J**
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**160**	**191**	**255**	**258**	**286**	**295**	**20.8**	**361**	**388**	**401**	**532**	**531**	**526**	**572**	**568**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	**0.59 J**	**0.74 J**	**0.71 J**	**0.80 J**	**1.1**	<1.0	**1.3**	**1.6**	**1.3**	**1.6**	**1.9**	**2.0**	**1.9**	**1.9**
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	**1.7**	**2.0**	**3.4**	**2.9**	**2.9**	**3.3**	<1.0	**4.1**	**4.2**	**3.9**	**5.1**	**5.2**	**4.5**	**4.7**	**5.6**
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**150**	**159**	**190**	**189**	**227**	**220**	**24.0**	**243**	**258**	**244**	**290**	**276**	**271**	**261**	**267**
Vinyl chloride	2	**4.4**	**4.7**	**5.7**	**6.2**	**7.0**	**5.3**	**0.97 J**	**3.9**	**1.6**	**6.5**	**5.5**	**3.1**	**1.5**	**1.0**	**1.2**
Total VOCs[4]		**318.62**	**360.24**	**458.84**	**460.91**	**527.7**	**529**	**45.77**	**618.45**	**658.03**	**663.11**	**840.9**	**825**	**810.82**	**846.5**	**850.14**
Project VOCs[5]		**318.62**	**360.24**	**458.84**	**460.91**	**527.7**	**529**	**45.77**	**617.9**	**658.03**	**662.4**	**840.9**	**823.9**	**810.1**	**845.8**	**849.4**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-1 10/25/2024 BCPMW-4-1	BCPMW-4-1 11/1/2024 BCPMW-4-1	BCPMW-4-2 12/22/2016 BCPMW-4-2	BCPMW-4-2 12/22/2016 REP122216PP1	BCPMW-4-2 7/31/2017 BCPMW4-2	BCPMW-4-2 7/24/2018 BCPMW-4-2	BCPMW-4-2 7/11/2019 BCPMW-4-2	BCPMW-4-2 7/20/2020 BCPMW4-2	BCPMW-4-2 8/2/2021 BCPMW4-2	BCPMW-4-2 3/7/2022 BCPMW-4-2	BCPMW-4-2 3/25/2022 BCP MW4-2	BCPMW-4-2 4/8/2022 BCPMW-4-2	BCPMW-4-2 5/2/2022 BCPMW-4-2	BCPMW-4-2 2/2/2023 BCPMW-4-2
	NYSDEC SCGs														
1,1,1-Trichloroethane	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 500	< 5.0	< 500	< 250	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
1,1-Dichloroethane	5	**3.5**	**5.3**	**0.22 J**	**0.23 J**	**0.25 J**	**0.87 J**	**0.97 J**	**0.59 J**	< 10	< 100	**18.5**	< 100	< 50	**0.94 J**
1,1-Dichloroethene	5	**0.82 J**	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	**23.8**	< 100	< 50	**0.80 J**
1,2-Dichloroethane	0.6	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
1,3-Butadiene	NE	<5.0	<5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 50	< 500	< 5.0	< 500	< 250	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 50	< 500	< 5.0	< 500	< 250	<5.0
2-Butanone (MEK)	50	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 1000	< 10	< 1000	< 500	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 500	**12.7**	< 500	< 250	<5.0
Acetone	50	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 1000	**76.9**	< 1000	< 500	<10
Benzene	1	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	**63.7**	**56.3**	**57.2**	**22.7 J**	<0.50
Bromodichloromethane	50	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Bromoform	50	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Bromomethane	5	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 200	< 2.0	< 200	< 100	<2.0
Carbon Disulfide	60	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 200	< 2.0	< 200	< 100	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
CFC-11	5	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	--	--	--	--	<2.0
CFC-12	5	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 200	< 2.0	< 200	< 100	<2.0
Chlorobenzene	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Chlorodibromomethane	50	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 500	< 5.0	< 500	< 250	<5.0
Chloroethane	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Chloroform	7	**0.70 J**	**0.92 J**	**3.9**	**3.6**	**2.3**	**1.3**	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Chloromethane	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
cis-1,2-Dichloroethene	5	**550**	**819**	**16.9**	**17.4**	**19.9**	**58.1**	**68.5**	**54.6**	**342**	**5300**	**3660**	**2800**	**1550**	**105**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Dichloromethane	5	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 200	< 2.0	< 200	< 100	<2.0
Ethylbenzene	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**13.0**	**1270**	**749**	**611**	**371**	**2.5**
m&p-Xylenes	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**27.6**	**3100**	**2060**	**1580**	**816**	**1.2**
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 500	< 5.0	< 500	< 250	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	--	--	--	--	<1.0
o-Xylene	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**13.6**	**1500**	**983**	**753**	**352**	<1.0
Styrene (Monomer)	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Tetrachloroethene	5	**2.6**	**3.1**	< 1.0	**0.27 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Toluene	5	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1230**	**16700**	**27500**	**25400**	**15500 D**	<1.0
trans-1,2-Dichloroethene	5	**4.3**	**5.9**	**0.62 J**	**0.58 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	**8.1**	< 100	< 50	**1.8**
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100	< 1.0	< 100	< 50	<1.0
Trichloroethene	5	**240**	**314**	**18.0**	**18.1**	**17.6**	**61.5**	**37.0**	**44.1**	**42.4**	< 100	**26.1**	< 100	< 50	**132**
Vinyl chloride	2	**0.75 J**	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.97 J**	**33.9**	**495**	**250**	**255**	**158**	**6.9**
Total VOCs[4]		**802.67**	**1150.62**	39.64	40.18	40.05	121.77	**106.47**	**100.26**	**1702.5**	**28428.7**	**35424.4**	**31456.2**	**18769.7**	**251.14**
Project VOCs[5]		**801.97**	**1149.7**	35.74	36.58	37.75	**120.47**	**106.47**	**100.26**	**1689.5**	**27158.7**	**34585.8**	**30845.2**	**18398.7**	**251.14**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**2.4**	**0.77**	**10**	**27**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-2 2/8/2023 BCPMW-4-2	BCPMW-4-2 2/16/2023 BCPMW-4-2	BCPMW-4-2 2/23/2023 BCPMW-4-2	BCPMW-4-2 3/2/2023 BCPMW-4-2	BCPMW-4-2 3/8/2023 BCPMW-4-2	BCPMW-4-2 3/17/2023 BCPMW-4-2	BCPMW-4-2 3/24/2023 BCPMW-4-2	BCPMW-4-2 3/31/2023 BCPMW-4-2	BCPMW-4-2 10/3/2023 BCPMW-4-2	BCPMW-4-2 11/10/2023 BCPMW-4-2	BCPMW-4-2 11/17/2023 BCPMW-4-2	BCPMW-4-2 11/22/2023 BCPMW-4-2	BCPMW-4-2 12/8/2023 BCPMW-4-2	BCPMW-4-2 12/21/2023 BCPMW-4-2
	NYSDEC SCGs														
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	**0.87 J**	**0.81 J**	**1.4**	**1.3**	**1.9**	**2.0**	**1.8**	**1.8**	<1.0	**2.5**	**1.3**	**1.3**	**1.0**	**0.58 J**
1,1-Dichloroethene	5	**0.71 J**	**0.69 J**	**0.84 J**	**1.0**	**1.3**	**1.3**	**1.2**	**1.1**	<1.0	**1.7**	**1.1**	**0.81 J**	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	**3.6 J**	**3.6 J**	**3.5 J**	<10	**15.1**	<10	<10	<10	<10	<10
Benzene	1	**0.45 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.3**	**0.60**	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**101**	**98.8**	**126**	**134**	**159**	**183**	**173**	**152**	**30.6**	**320**	**193**	**153**	**91.9**	**45.6**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.74 J**	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	**0.92 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.95 J**	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	**0.58 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**0.65 J**	**1.8**	**4.0**	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	**1.6**	**1.8**	**2.4**	**2.3**	**3.4**	**3.1**	**3.0**	**3.0**	**0.72 J**	**3.7**	**2.1**	**1.8**	**1.0**	**0.64 J**
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**125**	**124**	**141**	**145**	**163**	**175**	**174**	**168**	**64.1**	**184**	**133**	**106**	**70.8**	**61.3**
Vinyl chloride	2	**7.5**	**4.1**	**2.1**	**1.7**	**2.5**	**1.3**	**1.3**	**1.7**	**1.4**	**16.2**	**8.6**	**8.6**	**3.4**	**2.0**
Total VOCs[4]		**240.35**	**230.2**	**273.74**	**285.3**	**335.28**	**369.95**	**359.6**	**334.89**	**119.72**	**529.4**	**339.7**	**271.51**	**168.1**	**110.12**
Project VOCs[5]		**240.35**	**230.2**	**273.74**	**285.3**	**335.28**	**369.95**	**359.6**	**334.89**	**119.72**	**529.4**	**339.7**	**271.51**	**168.1**	**110.12**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-4-2 12/28/2023 BCPMW-4-2	BCPMW-4-2 1/5/2024 BCPMW-4-2	BCPMW-4-2 1/11/2024 BCPMW-4-2	BCPMW-4-2 1/19/2024 BCPMW-4-2	BCPMW-4-2 1/25/2024 BCPMW-4-2	BCPMW-4-2 2/1/2024 BCPMW-4-2	BCPMW-4-2 2/8/2024 BCPMW-4-2	BCPMW-4-2 2/15/2024 BCPMW-4-2	BCPMW-4-2 2/22/2024 BCPMW-4-2	BCPMW-4-2 2/29/2024 BCPMW-4-2	BCPMW-4-2 3/7/2024 BCPMW-4-2	BCPMW-4-2 3/14/2024 BCPMW-4-2	BCPMW-4-2 3/21/2024 BCPMW-4-2	BCPMW-4-2 4/5/2024 BCPMW-4-2
	NYSDEC SCGs														
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**37.1**	**27.7**	**28.3**	**20.3**	**19.5**	**13.6**	**9.2**	**7.1**	**4.3**	**3.9**	**4.3**	**3.3**	**2.1**	**1.8**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**54.0**	**47.6**	**42.1**	**33.0**	**35.2**	**29.1**	**20.9**	**18.1**	**13.2**	**12.5**	**11.8**	**9.3**	**8.1**	**5.8**
Vinyl chloride	2	**1.5**	**1.3**	**0.83 J**	**0.56 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		92.6	**76.6**	**71.23**	**53.86**	54.7	42.7	30.1	25.2	17.5	16.4	16.1	12.6	10.2	7.6
Project VOCs[5]		92.6	**76.6**	**71.23**	**53.86**	54.7	42.7	30.1	25.2	17.5	16.4	16.1	12.6	10.2	7.6
1,4-Dioxane[6]		--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-4-2 4/11/2024 BCPMW-4-2	BCPMW-4-2 4/18/2024 BCPMW-4-2	BCPMW-4-2 4/26/2024 BCPMW-4-2	BCPMW-4-2 5/2/2024 BCPMW-4-2	BCPMW-4-2 5/9/2024 BCPMW-4-2	BCPMW-4-2 6/7/2024 BCPMW-4-2	BCPMW-4-2 6/14/2024 BCPMW-4-2	BCPMW-4-2 6/20/2024 BCPMW-4-2	BCPMW-4-2 6/27/2024 BCPMW-4-2	BCPMW-4-2 7/3/2024 BCPMW-4-2	BCPMW-4-2 7/11/2024 BCPMW-4-2	BCPMW-4-2 7/19/2024 BCPMW-4-2	BCPMW-4-2 7/26/2024 BCPMW-4-2	BCPMW-4-2 8/1/2024 BCPMW-4-2
	NYSDEC SCGs														
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**1.4**	**1.2**	**1.4**	**1.9**	**4.2**	**1.8**	**1.5**	**1.0**	**1.4**	**1.8**	**3.4**	**6.5**	**8.6**	**9.7**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**5.4**	**5.0**	**5.0**	**6.4**	**11.8**	**4.1**	**3.8**	**4.3**	**4.8**	**5.4**	**7.8**	**11.3**	**12.0**	**12.6**
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		6.8	6.2	6.4	8.3	16	5.9	5.3	5.3	6.2	7.2	11.2	17.8	20.6	22.3
Project VOCs[5]		6.8	6.2	6.4	8.3	16	5.9	5.3	5.3	6.2	7.2	11.2	17.8	20.6	22.3
1,4-Dioxane[6]		--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-2 8/9/2024 BCPMW-4-2	BCPMW-4-2 8/15/2024 BCPMW-4-2	BCPMW-4-2 8/22/2024 BCPMW-4-2	BCPMW-4-2 8/26/2024 BCPMW-4-2	BCPMW-4-2 8/28/2024 BCPMW-4-2	BCPMW-4-2 9/5/2024 BCPMW-4-2	BCPMW-4-2 9/19/2024 BCPMW-4-2	BCPMW-4-2 9/26/2024 BCPMW-4-2	BCPMW-4-2 10/3/2024 BCPMW-4-2	BCPMW-4-2 10/11/2024 BCPMW-4-2	BCPMW-4-2 10/18/2024 BCPMW-4-2	BCPMW-4-2 10/25/2024 BCPMW-4-2	BCPMW-4-2 11/1/2024 BCPMW-4-2	BCPMW-4-2 11/15/2024 BCPMW-4-2
	NYSDEC SCGs														
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	**3.5**	<1.0	--	<1.0	<1.0	<1.0	<1.0	**0.67 J**	<1.0	<1.0	<1.0	**0.80 J**	**0.71 J**
1,1-Dichloroethene	5	<1.0	**1.4**	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	**0.65 J**	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**16.3**	**400**	**9.3**	--	**20.1**	**22.4**	**30.5**	**31.5**	**35.3**	**35.7**	**42.1**	**47.6**	**70.1**	**57.7**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	**1.3**	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	**4.4**	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.69 J**	**0.59 J**
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**19.7**	**276**	**9.7**	--	**24.4**	**25.2**	**32.3**	**30.9**	**36.8**	**33.3**	**37.9**	**41.1**	**55.9**	**49.0**
Vinyl chloride	2	**1.0**	**4.7**	<1.0	--	**1.2**	**1.6**	**2.5**	**2.5**	**3.4**	**2.4**	--	**3.3**	**5.8**	**4.9**
Total VOCs[4]		**37**	**691.95**	19	0	**45.7**	**49.2**	**65.3**	**64.9**	**76.17**	**71.4**	80	**92**	**133.29**	**112.9**
Project VOCs[5]		**37**	**691.3**	19	0	**45.7**	**49.2**	**65.3**	**64.9**	**76.17**	**71.4**	80	**92**	**133.29**	**112.9**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-4-2 11/27/2024 BCPMW-4-2	BCPMW-4-2 12/5/2024 BCPMW-4-2	BCPMW-4-2 12/26/2024 BCPMW-4-2	BCPMW-4-3 12/22/2016 BCPMW-4-3	BCPMW-4-3 8/3/2017 BCPMW-4-3	BCPMW-4-3 8/8/2018 BCPMW-4-3	BCPMW-4-3 7/11/2019 BCPMW-4-3	BCPMW-4-3 7/21/2020 BCPMW4-3	BCPMW-4-3 8/2/2021 BCPMW4-3	BCPMW-4-3 4/11/2022 BCPMW-4-3	BCPMW-4-3 5/3/2022 BCPMW-4-3	BCPMW-4-3 7/22/2022 BCPMW-4-3	BCPMW-4-3 7/19/2023 BCPMW-4-3	BCPMW-4-3 7/16/2024 BCPMW-4-3
	NYSDEC SCGs														
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethane	5	**0.80 J**	**0.74 J**	**0.86 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	--	--	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	< 2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	**0.52 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**60.3**	**59.7**	**60.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.65 J**	< 1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.58 J**	< 1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	**0.62 J**	**0.63 J**	**0.61 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichloroethene	5	**48.1**	**47.6**	**50.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Vinyl chloride	2	**4.7**	**4.9**	**4.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Total VOCs[4]		**114.52**	**113.57**	**116.27**	**0.52**	**0**	**0**	**0**	**0**	**0**	**0**	**1.23**	**0**	**0**	0
Project VOCs[5]		**114.52**	**113.57**	**116.27**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.23**	**0**	**0**	0
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**0.43**	**0.41**	**0.44**	**0.26**	**--**	**--**	**0.27**	**0.40**	**0.70**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-6-1 12/27/2016 BCPMW-6-1	BCPMW-6-1 8/1/2017 BCPMW-6-1	BCPMW-6-1 8/6/2018 BCPMW-6-1	BCPMW-6-1 7/15/2019 BCPMW-6-1	BCPMW-6-1 7/13/2020 BCPMW6-1	BCPMW-6-1 8/2/2021 BCPMW6-1	BCPMW-6-1 8/1/2022 BCPMW-6-1	BCPMW-6-1 7/21/2023 BCPMW-6-1	BCPMW-6-1 7/18/2024 BCPMW-6-1	BCPMW-6-2 12/27/2016 BCPMW-6-2	BCPMW-6-2 8/2/2017 BCPMW-6-2	BCPMW-6-2 8/6/2018 BCPMW-6-2	BCPMW-6-2 7/16/2019 BCPMW-6-2	BCPMW-6-2 7/13/2020 BCPMW6-2	BCPMW-6-2 7/20/2021 BCPMW6-2
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	**0.21 J**	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	**3.7 J**	**4.1 J**	**3.0 J**	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	**0.97 J**	**0.92 J**	< 1.0	< 1.0
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 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	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		**0**	**0**	**3.7**	**4.1**	**3**	**0**	**0**	**0**	0	**0**	**0.21**	**0.97**	**0.92**	**0**	**0**
Project VOCs[5]		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0.21**	**0.97**	**0.92**	**0**	**0**
1,4-Dioxane[6]		**--**	**--**	**< 0.24**	**< 0.23**	**< 0.23**	**< 0.23**	**0.11 J**	**<0.23**	**<0.23**	**--**	**--**	**0.092 J**	**0.096 J**	**0.16 J**	**0.092 J**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	BCPMW-6-2 8/1/2022 BCPMW-6-2	BCPMW-6-2 7/21/2023 BCPMW-6-2	BCPMW-6-2 7/18/2024 BCPMW-6-2	BCPMW-7-1 12/28/2016 BCPMW-7-1	BCPMW-7-1 8/1/2017 BCPMW-7-1	BCPMW-7-1 8/3/2018 BCPMW-7-1	BCPMW-7-1 8/8/2018 BCPMW-7-1	BCPMW-7-1 7/10/2019 BCPMW-7-1	BCPMW-7-1 7/9/2020 BCPMW7-1	BCPMW-7-1 7/21/2021 BCPMW7-1	BCPMW-7-1 7/21/2022 BCPMW-7-1	BCPMW-7-1 7/20/2023 BCPMW-7-1	BCPMW-7-1 7/17/2024 BCPMW-7-1	BCPMW-7-1 7/26/2024 BCPMW-7-1	MW-200-1 1/17/2017 MW-200-1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0
1,1,2-Trichloroethane	1	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,1-Dichloroethane	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,1-Dichloroethene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,2-Dichloroethane	0.6	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,2-Dichloropropane	1	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
1,3-Butadiene	NE	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--
1-Chloro-1,1-difluoroethane	NE	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--
2-Butanone (MEK)	50	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	--	< 10
4-Methyl-2-Pentanone	NE	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0
Acetone	50	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	--	< 10
Benzene	1	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	--	< 0.50
Bromodichloromethane	50	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Bromoform	50	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Bromomethane	5	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0
Carbon Disulfide	60	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0
Carbon Tetrachloride	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
CFC-11	5	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0
CFC-12	5	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0
Chlorobenzene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Chlorodibromomethane	50	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Chlorodifluoromethane	5	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0
Chloroethane	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Chloroform	7	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Chloromethane	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
cis-1,2-Dichloroethene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
cis-1,3-Dichloropropene	0.4	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Dichloromethane	5	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	--	< 2.0
Ethylbenzene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
m&p-Xylenes	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	< 5.0
Methyl-tert-butylether	10	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
o-Xylene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Styrene (Monomer)	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Toluene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
trans-1,3-Dichloropropene	0.4	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Trichloroethene	5	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Vinyl chloride	2	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	--	< 1.0
Total VOCs[4]		**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**
Project VOCs[5]		**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**
1,4-Dioxane[6]		**0.15 J**	**<0.23**	**<0.24**	**--**	**--**	**--**	**< 0.24**	**< 0.24**	**< 0.24**	**< 0.23**	**< 0.17**	**<0.24**	**--**	**<0.23**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-200-1 8/7/2017 MW-200-1	MW-200-1 7/30/2018 MW-200-1	MW-200-1 7/8/2019 MW-200-1	MW-200-1 7/14/2020 MW-200-1	MW-200-1 7/27/2021 MW-200-1	MW-200-1 11/30/2021 MW 200-1	MW-200-1 5/5/2022 MW-200-1	MW-200-1 7/26/2022 MW-200-1	MW-200-1 9/15/2022 MW-200-1	MW-200-1 9/29/2022 MW-200-1	MW-200-1 10/10/2022 MW-200-1	MW-200-1 10/27/2022 MW-200-1	MW-200-1 11/16/2022 MW-200-1	MW-200-1 11/29/2022 MW-200-1	MW-200-1 12/15/2022 MW-200-1	MW-200-1 12/29/2022 MW-200-1	MW-200-1 1/10/2023 MW-200-1	MW-200-1 1/24/2023 MW-200-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethene	5	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,3-Butadiene	NE	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	<10	<10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon Disulfide	60	< 2.0	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--	--	--	--	--	--
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorodifluoromethane	5	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	--	--	--	--	--	--
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Total VOCs[4]		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Project VOCs[5]		**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
1,4-Dioxane[6]		**--**	**0.40**	**0.26**	**0.35**	**0.13 J**	**0.11 JB**	**--**	**0.098 J**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-200-1 2/7/2023 MW-200-1	MW-200-1 2/21/2023 MW-200-1	MW-200-1 3/7/2023 MW-200-1	MW-200-1 3/21/2023 MW-200-1	MW-200-1 4/5/2023 MW-200-1	MW-200-1 4/20/2023 MW-200-1	MW-200-1 5/4/2023 MW-200-1	MW-200-1 5/18/2023 MW-200-1	MW-200-1 6/1/2023 MW-200-1	MW-200-1 6/15/2023 MW-200-1	MW-200-1 6/28/2023 MW-200-1	MW-200-1 7/26/2023 MW-200-1	MW-200-1 8/9/2023 MW-200-1	MW-200-1 8/23/2023 MW-200-1	MW-200-1 9/6/2023 MW-200-1	MW-200-1 9/21/2023 MW-200-1	MW-200-1 10/5/2023 MW-200-1	MW-200-1 10/19/2023 MW-200-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	--	--	--	--	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	--	--	--	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Project VOCs[5]		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.14 J**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-200-1 11/3/2023 MW-200-1	MW-200-1 11/16/2023 MW-200-1	MW-200-1 11/30/2023 MW-200-1	MW-200-1 12/14/2023 MW-200-1	MW-200-1 12/27/2023 MW-200-1	MW-200-1 1/10/2024 MW-200-1	MW-200-1 1/24/2024 MW-200-1	MW-200-1 2/7/2024 MW-200-1	MW-200-1 2/20/2024 MW-200-1	MW-200-1 3/5/2024 MW-200-1	MW-200-1 3/20/2024 MW-200-1	MW-200-1 4/3/2024 MW-200-1	MW-200-1 4/17/2024 MW-200-1	MW-200-1 5/2/2024 MW-200-1	MW-200-1 5/13/2024 MW-200-1	MW-200-1 5/30/2024 MW-200-1	MW-200-1 6/14/2024 MW-200-1	MW-200-1 6/27/2024 MW-200-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**0**	**0**	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0
Project VOCs[5]		**0**	**0**	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-200-1 7/9/2024 MW-200-1	MW-200-1 7/26/2024 MW-200-1	MW-200-1 8/7/2024 MW-200-1	MW-200-1 8/20/2024 MW-200-1	MW-200-1 9/4/2024 MW-200-1	MW-200-1 9/18/2024 MW-200-1	MW-200-1 10/1/2024 MW-200-1	MW-200-1 10/18/2024 MW-200-1	MW-200-1 11/1/2024 MW-200-1	MW-200-1 11/14/2024 MW-200-1	MW-200-1 12/4/2024 MW-200-1	MW-201-1 1/18/2017 MW-201-1	MW-201-1 8/8/2017 MW-201-1	MW-201-1 8/1/2018 MW-201-1	MW-201-1 7/8/2019 MW-201-1	MW-201-1 7/14/2020 MW-201-1	MW-201-1 7/30/2021 MW-201-1	MW-201-1 12/1/2021 MW-201-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.0**	**1.5**	**0.87 J**	< 1.0	**0.60 J**	< 1.0	< 1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 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	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**1.3**	**0.90 J**	**0.69 J**	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		0	0	0	0	0	0	0	0	0	0	0	**3.6**	**2.8**	**1.77**	**0.69**	**0.6**	**0**	0
Project VOCs[5]		0	0	0	0	0	0	0	0	0	0	0	**3.6**	2.8	1.77	0.69	0.6	0	0
1,4-Dioxane[6]		--	**0.29**	--	--	--	--	--	--	--	--	--	--	--	**0.40**	**0.30**	**0.47**	**0.34**	**0.22 JB**

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-201-1 5/6/2022 MW-201-1	MW-201-1 7/29/2022 MW-201-1	MW-201-1 9/16/2022 MW-201-1	MW-201-1 9/30/2022 MW-201-1	MW-201-1 10/11/2022 MW-201-1	MW-201-1 10/28/2022 MW-201-1	MW-201-1 11/17/2022 MW-201-1	MW-201-1 11/30/2022 MW-201-1	MW-201-1 12/16/2022 MW-201-1	MW-201-1 12/30/2022 MW-201-1	MW-201-1 1/11/2023 MW-201-1	MW-201-1 1/25/2023 MW-201-1	MW-201-1 2/8/2023 MW-201-1	MW-201-1 2/22/2023 MW-201-1	MW-201-1 3/8/2023 MW-201-1	MW-201-1 3/22/2023 MW-201-1	MW-201-1 4/6/2023 MW-201-1	MW-201-1 4/20/2023 MW-201-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	< 2.0	< 2.0	< 2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	< 1.0	**1.6**	**1.2**	**2.0**	**0.78 J**	**1.0**	**1.1**	**1.8**	**1.6**	**1.7**	**1.3**	**1.4**	**1.1**	**0.92 J**	**1.2**	**0.63 J**	**0.79 J**	**0.79 J**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	< 1.0	< 1.0	< 1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<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	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	< 1.0	**0.74 J**	**0.54 J**	**0.75 J**	< 1.0	< 1.0	**0.61 J**	**0.83 J**	**0.61 J**	**0.75 J**	**0.73 J**	**0.67 J**	**0.75 J**	**0.66 J**	**0.70 J**	<1.0	<1.0	<1.0
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		0	**2.34**	**1.74**	**2.75**	**0.78**	**1**	**1.71**	**2.63**	**2.21**	**2.45**	**2.03**	**2.07**	**1.85**	**1.58**	**1.9**	**0.63**	**0.79**	**0.79**
Project VOCs[5]		**0**	**2.34**	**1.74**	**2.75**	**0.78**	**1**	**1.71**	**2.63**	**2.21**	**2.45**	**2.03**	**2.07**	**1.85**	**1.58**	**1.9**	**0.63**	**0.79**	**0.79**
1,4-Dioxane[6]		**--**	**0.37**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	MW-201-1 5/4/2023 MW-201-1	MW-201-1 5/18/2023 MW-201-1	MW-201-1 6/2/2023 MW-201-1	MW-201-1 6/16/2023 MW-201-1	MW-201-1 6/27/2023 MW-201-1	MW-201-1 7/27/2023 MW-201-1	MW-201-1 8/10/2023 MW-201-1	MW-201-1 8/24/2023 MW-201-1	MW-201-1 9/7/2023 MW-201-1	MW-201-1 9/22/2023 MW-201-1	MW-201-1 10/6/2023 MW-201-1	MW-201-1 10/20/2023 MW-201-1	MW-201-1 11/3/2023 MW-201-1	MW-201-1 11/17/2023 MW-201-1	MW-201-1 12/1/2023 MW-201-1	MW-201-1 12/15/2023 MW-201-1	MW-201-1 12/27/2023 MW-201-1	MW-201-1 1/10/2024 MW-201-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	<2.0	--	--	--	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**0.53 J**	**0.74 J**	**0.62 J**	**0.72 J**	**0.51 J**	**1.2**	**0.83 J**	**0.64 J**	<1.0	**0.53 J**	<1.0	**0.56 J**	**0.75 J**	**0.66 J**	**0.66 J**	**1.4**	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	--	--	<1.0	<1.0	--	--	--	--	<1.0	--	--	--	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**0.69 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.55 J**	**0.69 J**	**0.60 J**	**1.4**	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**0.53**	**0.74**	**0.62**	**0.72**	**0.51**	**1.89**	**0.83**	**0.64**	**0**	**0.53**	**0**	**0.56**	**1.3**	**1.35**	**1.26**	**2.8**	**0**	0
Project VOCs[5]		**0.53**	**0.74**	**0.62**	**0.72**	**0.51**	**1.89**	**0.83**	**0.64**	**0**	**0.53**	**0**	**0.56**	**1.3**	**1.35**	**1.26**	**2.8**	**0**	0
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**<0.23**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-201-1 1/24/2024 MW-201-1	MW-201-1 2/6/2024 MW-201-1	MW-201-1 2/21/2024 MW-201-1	MW-201-1 3/6/2024 MW-201-1	MW-201-1 3/20/2024 MW-201-1	MW-201-1 4/3/2024 MW-201-1	MW-201-1 4/18/2024 MW-201-1	MW-201-1 5/2/2024 MW-201-1	MW-201-1 5/13/2024 MW-201-1	MW-201-1 5/29/2024 MW-201-1	MW-201-1 6/13/2024 MW-201-1	MW-201-1 6/26/2024 MW-201-1	MW-201-1 7/9/2024 MW-201-1	MW-201-1 7/23/2024 MW-201-1	MW-201-1 8/7/2024 MW-201-1	MW-201-1 8/21/2024 MW-201-1	MW-201-1 9/4/2024 MW-201-1	MW-201-1 9/17/2024 MW-201-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project VOCs[5]		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,4-Dioxane[6]		--	--	--	--	--	--	--	--	--	--	--	--	--	**<0.23**	--	--	--	--

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-201-1 10/2/2024 MW-201-1	MW-201-1 10/18/2024 MW-201-1	MW-201-1 10/31/2024 MW-201-1	MW-201-1 11/13/2024 MW-201-1	MW-201-1 12/5/2024 MW-201-1	MW-202-1 1/19/2017 MW-202-1	MW-202-1 8/9/2017 MW-202-1	MW-202-1 7/31/2018 MW-202-1	MW-202-1 7/10/2019 MW-202-1	MW-202-1 7/17/2020 MW-202-1	MW-202-1 7/29/2021 MW-202-1	MW-202-1 12/2/2021 MW-202-1	MW-202-1 5/9/2022 MW-202-1	MW-202-1 7/28/2022 MW-202-1	MW-202-1 7/24/2023 MW-202-1	MW-202-1 7/25/2024 MW-202-1	MW-203-1 1/20/2017 MW-203-1	MW-203-1 8/10/2017 MW-203-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.98 J**	<5.0	**0.60 J**	< 5.0	< 5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	**0.66 J**	**0.80 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.30 J**	**0.34 J**
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**0.33 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Acetone	50	<10	<10	<10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0 J	< 2.0	< 2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 2.0	<2.0	<2.0	< 2.0	< 2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	**2.0 J**	**3.3 J**
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.27 J**	**0.35 J**
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**0.45 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.56 J**	< 1.0	<1.0	<1.0	**0.92 J**	**0.55 J**
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	<1.0	<1.0	< 1.0	< 1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	**1.4**	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.86 J**	**0.74 J**	**0.76 J**	**1.2**
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**0.68 J**	**0.96 J**	**0.70 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.54 J**	**0.76 J**	**0.79 J**	<1.0	**3.9**	**2.9**
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0
Total VOCs[4]		0	0	0	0	0	**3.42**	**3.16**	**1.8**	**0**	0	**0**	**0**	**1.1**	**1.74**	**1.65**	1.34	**8.15**	**8.64**
Project VOCs[5]		0	0	0	0	0	**3.42**	**3.16**	**1.8**	0	**0**	**0**	**0**	**1.1**	**0.76**	**1.65**	0.74	**5.88**	4.99
1,4-Dioxane[6]		--	--	--	--	--	--	--	**0.30**	**0.17 J**	**0.24**	**0.26**	**0.42 B**	--	**0.53**	**0.42**	**0.46**	--	--

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-203-1 8/2/2018 MW-203-1	MW-203-1 7/9/2019 MW-203-1	MW-203-1 7/15/2020 MW-203-1	MW-203-1 7/26/2021 MW-203-1	MW-203-1 12/3/2021 MW-203-1	MW-203-1 5/10/2022 MW-203-1	MW-203-1 7/25/2022 MW-203-1	MW-203-1 7/28/2023 MW-203-1	MW-203-1 7/22/2024 MW-203-1	MW-204-1 1/17/2017 MW-204-1	MW-204-1 8/7/2017 MW-204-1	MW-204-1 8/7/2017 REP080717AD1	MW-204-1 7/30/2018 MW-204-1	MW-204-1 7/8/2019 MW-204-1	MW-204-1 7/14/2020 MW-204-1	MW-204-1 7/27/2021 MW-204-1	MW-204-1 11/30/2021 MW-204-1
	NYSDEC SCGs																	
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0 J	<5.0 J	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10 J	<10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0 J	<5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.24 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	**0.61 J**	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**3.4**	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	**3.2**	**0.62 J**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0 J	**0.95 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**2.6**	**2.3**	**3.2**	**2.6**	**2.5**	**1.4**	**1.4**	**1.0**	**2.0**	**4.1**	**2.4**	**2.5**	**0.63 J**	< 1.0	**1.7**	**3.0**	**2.2**
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		**2.6**	**3.5**	**3.2**	**3.21**	**2.5**	**1.4**	**1.4**	**1**	2.95	7.74	**2.4**	**2.5**	**0.63**	**0**	**2.7**	**6.2**	**2.82**
Project VOCs[5]		2.6	3.5	**3.2**	3.21	2.5	1.4	1.4	**1**	2.95	**7.5**	**2.4**	**2.5**	**0.63**	**0**	**2.7**	**6.2**	**2.82**
1,4-Dioxane[6]		**0.19 J**	**0.24**	**0.27**	**--**	**0.22 J**	**--**	**0.14 J**	**0.29 J**	**0.41**	**--**	**--**	**--**	**0.25 J**	**0.14 J**	**< 0.23**	**< 0.24**	**< 0.23**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-204-1 11/30/2021 REP113021PQ1	MW-204-1 3/24/2022 MW204-1	MW-204-1 4/7/2022 MW-204-1	MW-204-1 5/5/2022 MW-204-1	MW-204-1 7/26/2022 MW-204-1	MW-204-1 7/26/2022 REP260722PQ	MW-204-1 9/15/2022 MW-204-1	MW-204-1 9/29/2022 MW-204-1	MW-204-1 10/10/2022 MW-204-1	MW-204-1 10/27/2022 MW-204-1	MW-204-1 11/16/2022 MW-204-1	MW-204-1 11/29/2022 MW-204-1	MW-204-1 12/15/2022 MW-204-1	MW-204-1 12/29/2022 MW-204-1	MW-204-1 1/10/2023 MW-204-1	MW-204-1 1/24/2023 MW-204-1	MW-204-1 2/7/2023 MW-204-1
	NYSDEC SCGs																	
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0 J	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	<10	<10	<10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0	<5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10 J	< 10 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
CFC-11	5	< 2.0	--	--	--	< 2.0	< 2.0	--	< 2.0	< 2.0	--	--	--	--	--	--	--	--
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**0.60 J**	< 1.0	**0.57 J**	**0.58 J**	< 1.0	< 1.0	< 1.0	**0.61 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	< 1.0	--	--	--	< 1.0	< 1.0	--	< 1.0	< 1.0	--	--	--	--	--	--	--	--
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**2.1**	**1.4**	**1.5**	**1.2**	**0.92 J**	**0.93 J**	**1.0**	**1.1**	**0.68 J**	**0.55 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**2.7**	**1.4**	**2.07**	**1.78**	**0.92**	**0.93**	1	1.71	**0.68**	**0.55**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Project VOCs[5]		**2.7**	**1.4**	**2.07**	**1.78**	**0.92**	0.93	1	**1.71**	**0.68**	**0.55**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
1,4-Dioxane[6]		**< 0.24**	**--**	**--**	**--**	**< 0.24**	**< 0.24**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-204-1 2/21/2023 MW-204-1	MW-204-1 3/7/2023 MW-204-1	MW-204-1 3/21/2023 MW-204-1	MW-204-1 4/5/2023 MW-204-1	MW-204-1 4/20/2023 MW-204-1	MW-204-1 5/4/2023 MW-204-1	MW-204-1 5/18/2023 MW-204-1	MW-204-1 6/1/2023 MW-204-1	MW-204-1 6/15/2023 MW-204-1	MW-204-1 6/28/2023 MW-204-1	MW-204-1 7/26/2023 MW-204-1	MW-204-1 8/9/2023 MW-204-1	MW-204-1 8/23/2023 MW-204-1	MW-204-1 9/6/2023 MW-204-1	MW-204-1 9/21/2023 MW-204-1	MW-204-1 10/5/2023 MW-204-1	MW-204-1 10/19/2023 MW-204-1	MW-204-1 11/3/2023 MW-204-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	--	--	--	--	--	--	--	--	--	<2.0	<2.0	--	--	--	--	--	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	--	--	--	--	--	--	--	<1.0	<1.0	--	--	--	--	--	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Project VOCs[5]		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.16 J**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-204-1 11/16/2023 MW-204-1	MW-204-1 11/30/2023 MW-204-1	MW-204-1 12/14/2023 MW-204-1	MW-204-1 12/27/2023 MW-204-1	MW-204-1 1/10/2024 MW-204-1	MW-204-1 1/24/2024 MW-204-1	MW-204-1 2/7/2024 MW-204-1	MW-204-1 2/20/2024 MW-204-1	MW-204-1 3/5/2024 MW-204-1	MW-204-1 3/20/2024 MW-204-1	MW-204-1 4/3/2024 MW-204-1	MW-204-1 4/17/2024 MW-204-1	MW-204-1 9/17/2024 MW-204-1	MW-204-1 10/1/2024 MW-204-1	MW-204-1 10/18/2024 MW-204-1	MW-204-1 10/31/2024 MW-204-1	MW-204-1 11/14/2024 MW-204-1	MW-204-1 12/4/2024 MW-204-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	**0.59 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**0**	**0.59**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project VOCs[5]		**0**	**0.59**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-205-1 1/18/2017 MW-205-1	MW-205-1 8/8/2017 MW-205-1	MW-205-1 8/1/2018 MW-205-1	MW-205-1 7/8/2019 MW-205-1	MW-205-1 7/14/2020 MW-205-1	MW-205-1 7/30/2021 MW-205-1	MW-205-1 12/1/2021 MW-205-1	MW-205-1 3/24/2022 MW205-1	MW-205-1 4/7/2022 MW-205-1	MW-205-1 5/6/2022 MW-205-1	MW-205-1 7/29/2022 MW-205-1	MW-205-1 9/16/2022 MW-205-1	MW-205-1 9/30/2022 MW-205-1	MW-205-1 10/11/2022 MW-205-1	MW-205-1 10/28/2022 MW-205-1	MW-205-1 11/17/2022 MW-205-1	MW-205-1 11/30/2022 MW-205-1	MW-205-1 12/16/2022 MW-205-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0 J
1-Chloro-1,1-difluoroethane	NE	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J
Acetone	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	< 2.0	< 2.0	< 2.0	--	--	--	--	--
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	**0.64 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	**0.39 J**	**0.62 J**	**0.76 J**	< 1.0	< 1.0	< 1.0	**0.85 J**	**4.5**	**6.9**	**4.4**	**4.0**	**4.1**	**4.2**	**5.1**	**5.4**	**3.1**	**2.7**	**2.6**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	< 1.0	< 1.0	< 1.0	--	--	--	--	--
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**0.91 J**	**0.41 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	**2.4**	**1.7**	**2.0**	**1.7**	**1.7**	**2.1**	**2.4**	**1.6**	**1.4**	**1.3**
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		**1.94**	**1.03**	**0.76**	**0**	**0**	**0**	**0.85**	**5.9**	**9.3**	**6.1**	**6**	**5.8**	**5.9**	**7.2**	**7.8**	**4.7**	**4.1**	**3.9**
Project VOCs[5]		**1.3**	**1.03**	**0.76**	**0**	**0**	**0**	**0.85**	**5.9**	**9.3**	**6.1**	**6**	**5.8**	**5.9**	**7.2**	**7.8**	**4.7**	**4.1**	**3.9**
1,4-Dioxane[6]		**--**	**--**	**0.40**	**0.16 J**	**0.30**	**< 0.23**	**< 0.24**	**--**	**--**	**--**	**< 0.24**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-205-1 12/30/2022 MW-205-1	MW-205-1 1/11/2023 MW-205-1	MW-205-1 1/25/2023 MW-205-1	MW-205-1 2/8/2023 MW-205-1	MW-205-1 2/22/2023 MW-205-1	MW-205-1 3/8/2023 MW-205-1	MW-205-1 3/22/2023 MW-205-1	MW-205-1 4/6/2023 MW-205-1	MW-205-1 4/20/2023 MW-205-1	MW-205-1 5/4/2023 MW-205-1	MW-205-1 5/18/2023 MW-205-1	MW-205-1 6/2/2023 MW-205-1	MW-205-1 6/16/2023 MW-205-1	MW-205-1 6/27/2023 MW-205-1	MW-205-1 7/27/2023 MW-205-1	MW-205-1 8/10/2023 MW-205-1	MW-205-1 8/24/2023 MW-205-1	MW-205-1 9/7/2023 MW-205-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	< 10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	< 10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.0	<2.0	--	--
CFC-12	5	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**2.2**	**2.2**	**2.2**	**1.5**	**1.3**	**1.2**	**0.61 J**	**0.61 J**	<1.0	<1.0	<1.0	<1.0	**0.81 J**	**0.87 J**	**0.90 J**	**1.3**	**1.1**	**1.5**
cis-1,3-Dichloropropene	0.4	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	<1.0	--	--
o-Xylene	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**0.88 J**	**1.1**	**1.1**	**0.81 J**	**0.85 J**	**0.69 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.61 J**	**0.69 J**	**0.66 J**	**0.76 J**	**0.72 J**	**0.91 J**
Vinyl chloride	2	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**3.08**	**3.3**	**3.3**	**2.31**	**2.15**	**1.89**	**0.61**	**0.61**	**0**	**0**	**0**	**0**	**1.42**	**1.56**	**1.56**	**2.06**	**1.82**	**2.41**
Project VOCs[5]		**3.08**	**3.3**	**3.3**	**2.31**	**2.15**	**1.89**	**0.61**	**0.61**	**0**	**0**	**0**	**0**	**1.42**	**1.56**	**1.56**	**2.06**	**1.82**	**2.41**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**<0.24**	**--**	**--**	**--**

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-205-1 9/22/2023 MW-205-1	MW-205-1 10/6/2023 MW-205-1	MW-205-1 10/19/2023 MW-205-1	MW-205-1 11/3/2023 MW-205-1	MW-205-1 11/16/2023 MW-205-1	MW-205-1 12/1/2023 MW-205-1	MW-205-1 12/15/2023 MW-205-1	MW-205-1 12/27/2023 MW-205-1	MW-205-1 1/10/2024 MW-205-1	MW-205-1 1/24/2024 MW-205-1	MW-205-1 2/6/2024 MW-205-1	MW-205-1 2/21/2024 MW-205-1	MW-205-1 3/6/2024 MW-205-1	MW-205-1 3/20/2024 MW-205-1	MW-205-1 4/3/2024 MW-205-1	MW-205-1 4/18/2024 MW-205-1	MW-205-1 5/2/2024 MW-205-1	MW-205-1 5/13/2024 MW-205-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	5	--	--	--	<2.0	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	**1.1**	**0.94 J**	**1.1**	**0.61 J**	**0.63 J**	**1.1**	<1.0	**1.4**	**1.1**	**0.70 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butylether	10	--	--	--	<1.0	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.56 J**	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	**0.91 J**	**0.72 J**	**0.77 J**	**0.88 J**	**0.81 J**	**0.95 J**	<1.0	**2.3**	**1.8**	**1.4**	**0.78 J**	**0.54 J**	**0.54 J**	**0.83 J**	**0.83 J**	**0.87 J**	**0.74 J**	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs[4]		**2.01**	**1.66**	**1.87**	**1.49**	**1.44**	**2.05**	**0**	**3.7**	2.9	2.1	0.78	0.54	0.54	0.83	1.39	0.87	0.74	0
Project VOCs[5]		**2.01**	**1.66**	**1.87**	**1.49**	**1.44**	**2.05**	**0**	**3.7**	2.9	2.1	0.78	0.54	0.54	0.83	1.39	0.87	0.74	0
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-205-1 5/29/2024 MW-205-1	MW-205-1 6/13/2024 MW-205-1	MW-205-1 6/26/2024 MW-205-1	MW-205-1 7/9/2024 MW-205-1	MW-205-1 7/23/2024 MW-205-1	MW-205-1 8/7/2024 MW-205-1	MW-205-1 8/21/2024 MW-205-1	MW-205-1 9/4/2024 MW-205-1	MW-205-1 9/18/2024 MW-205-1	MW-205-1 10/2/2024 MW-205-1	MW-205-1 10/18/2024 MW-205-1	MW-205-1 11/1/2024 MW-205-1	MW-205-1 11/13/2024 MW-205-1	MW-205-1 12/5/2024 MW-205-1	MW-206-1 1/19/2017 MW-206-1	MW-206-1 8/9/2017 MW-206-1	MW-206-1 7/31/2018 MW-206-1	MW-206-1 7/9/2019 MW-206-1
	NYSDEC SCGs																		
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.27 J**	**0.76 J**	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.74 J**	**3.0**	**0.96 J**	< 1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.27 J**	**1.7**	< 1.0	< 1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	< 5.0	< 5.0
2-Butanone (MEK)	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	< 10	< 10	< 10	< 10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0
CFC-12	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.92 J**	**1.3**	**0.56 J**	< 1.0
cis-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.56 J**	**2.8**	**1.4**	< 1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**1.4**	**0.98 J**	**0.59 J**	**0.60 J**	<1.0	<1.0	<1.0	<1.0	**0.66 J**	<1.0	<1.0	**0.71 J**	**0.93 J**	**0.55 J**	< 1.0	**0.65 J**	**0.79 J**	< 1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		1.4	0.98	0.59	0.6	0	0	0	0	0.66	0	0	0.71	0.93	0.55	**2.76**	**10.21**	**3.71**	**0**
Project VOCs[5]		1.4	0.98	0.59	0.6	0	0	0	0	0.66	0	0	0.71	0.93	0.55	**2.76**	**10.21**	**3.71**	**0**
1,4-Dioxane[6]		**--**	**--**	**--**	**--**	**0.16 J**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.34**	**0.21 J**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-206-1 7/17/2020 MW-206-1	MW-206-1 7/29/2021 MW-206-1	MW-206-1 12/2/2021 MW-206-1	MW-206-1 5/9/2022 MW-206-1	MW-206-1 7/28/2022 MW-206-1	MW-206-1 7/24/2023 MW-206-1	MW-206-1 7/25/2024 MW-206-1	MW-207A-1R 5/31/2018 MW-207A-1R	MW-207A-1R 5/31/2018 DUP-1	MW-207A-1R 7/10/2019 MW-207A-1R	MW-207A-1R 7/16/2020 MW-207A-1R	MW-207A-1R 7/28/2021 MW-207A-1R	MW-207A-1R 7/27/2022 MW-207A-1R	MW-207A-1R 7/25/2023 MW-207A-1R	MW-207A-1R 7/24/2024 MW-207A-1R
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	< 5.0	**0.62 J**	<5.0	**0.68 J**	< 5	**1.2 J**	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethane	5	**0.58 J**	**1.7**	**0.83 J**	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethene	5	< 1.0	**0.86 J**	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
Benzene	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	**0.58 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	--	< 2.0	<2.0	<2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
CFC-12	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	**0.42 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	< 1.0	**1.7**	**1.3**	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	--	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Tetrachloroethene	5	**1.3**	**1.6**	**1.3**	< 1.0	< 1.0	**0.87 J**	**0.93 J**	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	**0.41 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichloroethene	5	**0.75 J**	**0.76 J**	**0.73 J**	**0.72 J**	**0.58 J**	**0.70 J**	**0.62 J**	< 1	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Total VOCs[4]		**2.63**	**6.62**	**4.16**	**0.72**	**1.2**	**1.57**	2.23	**0**	**3.71**	**0**	**0**	**0**	**0**	**0**	0
Project VOCs[5]		**2.63**	**6.62**	**4.16**	**0.72**	**0.58**	**1.57**	1.55	**0**	**1.51**	**0**	**0**	**0**	**0**	**0**	0
1,4-Dioxane[6]		**0.59**	**0.32**	**0.40 B**	**--**	**0.38**	**0.41**	**0.52**	**0.64**	**1.2**	**0.45**	**0.45**	**0.30**	**0.52**	**<0.23**	**<0.23**

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: Sample Date: Sample ID:	MW-207B-1R 5/31/2018 MW-207B-1R	MW-207B-1R 7/10/2019 MW-207B-1R	MW-207B-1R 7/16/2020 MW-207B-1R	MW-207B-1R 7/28/2021 MW-207B-1R	MW-207B-1R 7/27/2022 MW-207B-1R	MW-207B-1R 7/25/2023 MW-207B-1R	MW-207B-1R 7/24/2024 MW-207B-1R	MW-208-1 1/20/2017 MW-208-1	MW-208-1 8/10/2017 MW-208-1	MW-208-1 8/2/2018 MW-208-1	MW-208-1 8/2/2018 REP080218DC1	MW-208-1 7/9/2019 MW-208-1	MW-208-1 7/9/2019 REP070919DC1	MW-208-1 7/15/2020 MW-208-1	MW-208-1 7/15/2020 REP071520SV1
	NYSDEC SCGs															
1,1,1-Trichloroethane	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	**1.3 J**	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**2.1**	**1.1**	**0.61 J**	< 1.0	**0.69 J**	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.70 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.35 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	--	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	--	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	< 5	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	< 5.0
Acetone	50	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	1	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	**0.65 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CFC-12	5	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	**0.46 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	--	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**2.8**	**1.4**	**0.75 J**	**0.71 J**	**0.53 J**	**0.62 J**	< 1.0	< 1.0
Chloromethane	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**597**	**268**	**129**	**135**	**176 J**	**166**	**44.6**	**44.4**
cis-1,3-Dichloropropene	0.4	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.43 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	**0.39 J**	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**0.60 J**	**1.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**1.1**	**0.88 J**	**0.69 J**	**0.75 J**	**0.56 J**	**0.58 J**	<1.0	**10.9**	**12.8**	**11.7**	**11.4**	**9.1**	**9.4**	**4.5**	**4.5**
Vinyl chloride	2	< 1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**3.3**	**1.8**	**1.1**	**0.98 J**	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		**3.9**	**0.88**	**0.69**	**0.75**	**0.56**	**0.58**	0	**618.18**	**286.7**	**143.16**	**148.09**	**186.32**	**176.02**	**49.1**	**48.9**
Project VOCs[5]		**1.49**	**0.88**	**0.69**	**0.75**	**0.56**	**0.58**	0	**614.6**	**285.3**	**142.41**	**147.38**	**185.79**	**175.4**	**49.1**	**48.9**
1,4-Dioxane[6]		**1.3**	**0.68**	**0.87**	**0.62**	**0.97**	**1.0**	**0.77**	**--**	**--**	**0.51**	**0.35**	**0.38**	**0.40**	**0.40**	**0.41**

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Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Compound [1,2,3] (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-208-1 7/26/2021 MW-208-1	MW-208-1 7/26/2021 REP072621PQ	MW-208-1 7/25/2022 MW-208-1	MW-208-1 7/28/2023 MW-208-1	MW-208-1 7/28/2023 REP072823ARH	MW-208-1 7/22/2024 MW-208-1	MW-208-1 7/22/2024 REP072224SH1	PZ-1A 5/2/2022 PZ-01A	PZ-1A 7/18/2022 PZ-1A	PZ-3 5/3/2022 PZ-03	PZ-3 7/19/2022 PZ-3	PZ-4 5/3/2022 PZ-04	PZ-4 7/19/2022 PZ-4
	NYSDEC SCGs													
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	**0.97 J**
1,1,2,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	5	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	< 100	< 50	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	**0.63 J**
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**13.1 J**	**6.0 J**	< 1.0	< 1.0	**1.2**	**3.4**
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**53.5**	**15.6**	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Butadiene	NE	< 5.0	< 5.0	< 5.0	<5.0 J	<5.0 J	<5.0 J	<5.0 J	< 100	< 50	< 5.0	< 5.0	< 5.0	< 5.0
1-Chloro-1,1-difluoroethane	NE	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	< 100	< 50	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	50	< 10	< 10	< 10	<10	<10	<10	<10	< 200	< 100	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	NE	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	< 100	< 50	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	< 10	< 10	< 10	<10 J	<10 J	<10 J	<10 J	< 200	< 100	**8.6 J**	< 10	< 10	< 10
Benzene	1	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	**40.1**	**11.4**	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	50	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	50	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	< 40	< 20	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	60	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	< 40	< 20	< 2.0	< 2.0	< 2.0	**1.3 J**
Carbon Tetrachloride	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	--	< 20	--	< 2.0	--	< 2.0
CFC-12	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	< 40	< 20	< 2.0	< 2.0	< 2.0	< 2.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	50	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodifluoromethane	5	< 5.0	< 5.0	< 5.0	<5.0 J	<5.0 J	<5.0	<5.0	< 100	< 50	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0 J	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	**0.66 J**
Chloromethane	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	**24.6**	**25.8**	**14.2**	**8.0**	**8.1**	**5.7**	**6.1**	**9700 D**	**4390**	< 1.0	**2.3**	**93.5**	**227**
cis-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	< 40	< 20	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**969**	**273**	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	**1060**	**48.8**	< 1.0	< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 100	< 50	< 5.0	< 5.0	< 5.0	< 5.0
Methyl-tert-butylether	10	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	--	< 10	--	< 1.0	--	< 1.0
o-Xylene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**1550**	**308**	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	<1.0 J	<1.0 J	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**2550**	**1150**	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**74.4**	**20.4**	< 1.0	< 1.0	**0.73 J**	**0.77 J**
trans-1,3-Dichloropropene	0.4	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	< 20	< 10	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**2.4**	**2.6**	**1.6**	**0.83 J**	**0.82 J**	<1.0	**0.56 J**	**3420**	**224**	< 1.0	**2.7**	**36.8**	**86.3**
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	**475**	**53.4**	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]		**27**	**28.4**	**15.8**	**8.83**	**8.92**	5.7	6.66	**19905.1**	**6500.6**	**8.6**	**5**	**132.23**	**321.03**
Project VOCs[5]		**27**	**28.4**	**15.8**	**8.83**	**8.92**	5.7	6.66	**18936.1**	**6227.6**	**0**	**5**	**132.23**	**318.44**
1,4-Dioxane[6]		**--**	**--**	**0.29**	**0.23**	**0.29**	**0.24**	**0.27**	**--**	**--**	**--**	**--**	**--**	**--**

See Notes and Abbreviations on Last Page

Table 12
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Grondwater Containment System, OU3 (Former Settling Ponds) Bethpage, New York

Notes and Abbreviations

1. Historical data available in previous quarterly reports.
2. Results are validated at 20% frequency, per protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (ARCADIS 2016).
3. Samples analyzed for the TCL VOCs using USEPA Method 8260C.
4. "Total VOCs" represents the sum of individual concentrations of the VOCs detected. TVOCs were rounded to two significant figures.
5. "Project VOCs" represents the sum of individual concentrations of 1,1,1-Trichloroethane; 1,1-Dichloroethane; 1,2-Dichloroethane; 1,1-Dichloroethene; Tetrachloroethene; Trichloroethene; Vinyl Chloride; cis-1,2-Dichloroethene; trans-1,2-Dichloroethene; Benzene; Toluene; and Xylenes-o,m, and p.
6. Samples analyzed for 1,4-Dioxane using USEPA Method 8270D SIM (prior to 2016), per USEPA Method 522 SIM (2016-2017) and per USEPA Method 8270D SIM (since 2018).

	Bolded outline indicates an exceedance of an SCG.
< 5	Compound not detected above its laboratory quantification limit.
2.1	Bold value indicates a detection.
D	Constituent identified from secondary dilution
J	Result is estimated
ug/L	Micrograms per liter
NE	Not Established
--	Not Analyzed
NYSDEC	New York State Department of Environmental Conservation
REP	Field Replicate QA/QC sample
SCGs	Standards, Criteria, and Guidance values
SIM	Selective Ion Monitoring
TCL	Target compound list.
USEPA	United State Environmental Protection Agency
VOC	Volatile Organic Compound
OU	Operable Unit

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-4-1 7/31/2017 BCPMW-4-1	BCPMW-4-1 7/24/2018 BCPMW-4-1	BCPMW-4-1 7/11/2019 BCPMW-4-1	BCPMW-4-1 7/20/2020 BCPMW-4-1	BCPMW-4-1 7/20/2021 BCPMW-4-1	BCPMW-4-2 12/22/2016 REP122216PP1	BCPMW-4-2 7/31/2017 BCPMW-4-2
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	**17.2**	**27.6**	**44.4**	< 10	< 10
Chromium (Total)	50	< 10	< 10	**19.4**	**30.3**	**45.6**	**20.5**	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-4-2 7/24/2018 BCPMW-4-2	BCPMW-4-2 7/11/2019 BCPMW-4-2	BCPMW-4-2 7/20/2020 BCPMW-4-2	BCPMW-4-2 8/2/2021 BCPMW-4-2	BCPMW-4-3 8/3/2017 BCPMW-4-3	BCPMW-4-3 8/8/2018 BCPMW-4-3	BCPMW-4-3 7/11/2019 BCPMW-4-3
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-4-3 7/21/2020 BCPMW-4-3	BCPMW-4-3 8/2/2021 BCPMW-4-3	BCPMW-4-3 7/22/2022 BCPMW-4-3	BCPMW-4-3 7/19/2023 BCPMW-4-3	BCPMW-4-3 7/16/2024 BCPMW-4-3	BCPMW-6-1 8/1/2017 BCPMW-6-1	BCPMW-6-1 8/6/2018 BCPMW-6-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-6-1 7/15/2019 BCPMW-6-1	BCPMW-6-1 7/13/2020 BCPMW-6-1	BCPMW-6-1 8/2/2021 BCPMW-6-1	BCPMW-6-1 8/1/2022 BCPMW-6-1	BCPMW-6-1 7/21/2023 BCPMW-6-1	BCPMW-6-1 7/18/2024 BCPMW-6-1	BCPMW-6-2 8/2/2017 BCPMW-6-2
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	**3.3**
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	< 10	< 10	< 10	< 10	**87.7**

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-6-2 8/6/2018 BCPMW-6-2	BCPMW-6-2 7/13/2020 BCPMW-6-2	BCPMW-6-2 7/20/2021 BCPMW-6-2	BCPMW-6-2 8/1/2022 BCPMW-6-2	BCPMW-6-2 7/21/2023 BCPMW-6-2	BCPMW-6-2 7/18/2024 BCPMW-6-2	BCPMW-7-1 8/1/2017 BCPMW-7-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	**19.8**	< 10	< 10	< 10	< 10	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-7-1 8/3/2018 BCPMW-7-1	BCPMW-7-1 8/8/2018 BCPMW-7-1	BCPMW-7-1 7/10/2019 BCPMW-7-1	BCPMW-7-1 7/9/2020 BCPMW-7-1	BCPMW-7-1 7/21/2021 BCPMW-7-1	BCPMW-7-1 7/21/2022 BCPMW-7-1	BCPMW-7-1 7/20/2023 BCPMW-7-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	< 10	**11.6**	**11.1**	< 10	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	BCPMW-7-1 7/17/2024 BCPMW-7-1	MW-200-1 8/7/2017 MW-200-1	MW-200-1 7/30/2018 MW-200-1	MW-200-1 7/8/2019 MW-200-1	MW-200-1 7/14/2020 MW-200-1	MW-200-1 7/27/2021 MW-200-1	MW-200-1 7/26/2022 MW-200-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	**11.1**	**12.4**	**11.5**	**15.4**	**14.3**	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-200-1 7/26/2023 MW-200-1	MW-200-1 7/26/2024 MW-200-1	MW-201-1 8/8/2017 MW-201-1	MW-201-1 8/1/2018 MW-201-1	MW-201-1 7/8/2019 MW-201-1	MW-201-1 7/14/2020 MW-201-1	MW-201-1 7/30/2021 MW-201-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	**11.8**	< 10	**11.7**	< 10	< 10	**18.0**	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-201-1 7/29/2022 MW-201-1	MW-201-1 7/27/2023 MW-201-1	MW-201-1 7/23/2024 MW-201-1	MW-202-1 8/9/2017 MW-202-1	MW-202-1 7/31/2018 MW-202-1	MW-202-1 7/10/2019 MW-202-1	MW-202-1 7/17/2020 MW-202-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	**14.4**	< 10	< 10	**13.2**
Chromium (Total)	50	< 10	< 10	< 10	**73.4**	**21.4**	**26.5**	**71.4**

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-202-1 7/29/2021 MW-202-1	MW-202-1 7/28/2022 MW-202-1	MW-202-1 7/24/2023 MW-202-1	MW-202-1 7/25/2024 MW-202-1	MW-203-1 8/10/2017 MW-203-1	MW-203-1 8/2/2018 MW-203-1	MW-203-1 7/9/2019 MW-203-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	**12.8**	**21.9**	< 10	< 10	< 10
Chromium (Total)	50	**10.8**	< 10	**34.5**	**22.3**	**138**	**22.7**	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-203-1 7/15/2020 MW-203-1	MW-203-1 7/26/2021 MW-203-1	MW-203-1 7/25/2022 MW-203-1	MW-203-1 7/28/2023 MW-203-1	MW-203-1 7/22/2024 MW-203-1	MW-204-1 8/7/2017 MW-204-1
	NYSDEC SCGs						
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	**87.0**
Chromium (Total)	50	**13.1**	< 10	**10.0**	< 10	**13**	**175**

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-204-1 8/7/2017 REP080717AD1	MW-204-1 7/30/2018 MW-204-1	MW-204-1 7/8/2019 MW-204-1	MW-204-1 7/14/2020 MW-204-1	MW-204-1 7/27/2021 MW-204-1	MW-204-1 7/26/2022 MW-204-1
	NYSDEC SCGs						
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	**85.3**	**89.1**	< 10	< 10	< 10	< 10
Chromium (Total)	50	**171**	**239**	**30.1**	**18.9**	**22.3**	< 10

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-204-1 7/26/2022 REP260722PQ	MW-204-1 7/26/2023 MW-204-1	MW-205-1 8/8/2017 MW-205-1	MW-205-1 8/1/2018 MW-205-1	MW-205-1 7/8/2019 MW-205-1	MW-205-1 7/14/2020 MW-205-1
	NYSDEC SCGs						
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	**23.7**	**22.1**	**80.0**
Chromium (Total)	50	< 10	< 10	**134**	**88.7**	**70.2**	**242**

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Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-205-1 7/30/2021 MW-205-1	MW-205-1 7/29/2022 MW-205-1	MW-205-1 7/27/2023 MW-205-1	MW-205-1 7/23/2024 MW-205-1	MW-206-1 8/9/2017 MW-206-1	MW-206-1 7/31/2018 MW-206-1	MW-206-1 7/9/2019 MW-206-1
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	**22.8**	< 10	< 10	< 10	**10.7**	< 10	< 10
Chromium (Total)	50	**39.7**	**16.5**	< 10	< 10	**82.0**	**13.6**	**10.7**

Notes and Abbreviations on Last Page

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-206-1 7/17/2020 MW-206-1	MW-206-1 7/29/2021 MW-206-1	MW-206-1 7/28/2022 MW-206-1	MW-206-1 7/24/2023 MW-206-1	MW-206-1 7/25/2024 MW-206-1	MW-207A-1R 7/10/2019 MW-207A-1R	MW-207A-1R 7/16/2020 MW-207A-1R
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	**34.6**	< 10	< 10
Chromium (Total)	50	**24.7**	**20.2**	**23.4**	< 10	**33.7**	< 10	< 10

Notes and Abbreviations on Last Page

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-207A-1R 7/28/2021 MW-207A-1R	MW-207A-1R 7/27/2022 MW-207A-1R	MW-207A-1R 7/25/2023 MW-207A-1R	MW-207A-1R 7/24/2024 MW-207A-1R	MW-207B-1R 7/10/2019 MW-207B-1R	MW-207B-1R 7/16/2020 MW-207B-1R	MW-207B-1R 7/28/2021 MW-207B-1R
	NYSDEC SCGs							
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10	**12.8**
Chromium (Total)	50	< 10	< 10	< 10	< 10	**86.6**	**215**	**98.7**

Notes and Abbreviations on Last Page

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-207B-1R 7/27/2022 MW-207B-1R	MW-207B-1R 7/25/2023 MW-207B-1R	MW-207B-1R 7/24/2024 MW-207B-1R	MW-208-1 8/10/2017 MW-208-1	MW-208-1 8/2/2018 MW-208-1	MW-208-1 8/2/2018 REP080218DC1
	NYSDEC SCGs						
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	**11.7**	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	**32.9**	< 10	< 10	< 10

Notes and Abbreviations on Last Page

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-208-1 7/9/2019 MW-208-1	MW-208-1 7/9/2019 REP070919DC1	MW-208-1 7/15/2020 MW-208-1	MW-208-1 7/15/2020 REP071520SV1	MW-208-1 7/26/2021 MW-208-1	MW-208-1 7/26/2021 REP072621PQ
	NYSDEC SCGs						
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	< 10	< 10	< 10	< 10

Notes and Abbreviations on Last Page

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Constituents (All Constituent Concentrations in µg/L)	Sample Location: / Sample Date: / Sample ID:	MW-208-1 7/25/2022 MW-208-1	MW-208-1 7/28/2023 REP072823ARH	MW-208-1 7/22/2024 MW-208-1	MW-208-1 7/22/2024 REP072823ARH
	NYSDEC SCGs				
Cadmium (Dissolved)	5	< 3.0	< 3.0	< 3.0	< 3.0
Cadmium (Total)	5	< 3.0	< 3.0	< 3.0	< 3.0
Chromium (Dissolved)	50	< 10	< 10	< 10	< 10
Chromium (Total)	50	< 10	< 10	< 10	< 10

Notes and Abbreviations on Last Page

Table 13
Concentrations of Metals in Groundwater Samples Collected from Monitoring Wells, Bethpage Park Groundwater Containment System, OU3 (Former Settling Ponds), Bethpage, New York

Notes and Abbreviations:

1. Historical data available in previous quarterly reports.
2. Results are validated at 20% frequency, per protocols specified in Sampling and Analysis Plan in the Bethpage Park Groundwater Containment System OM&M Manual (ARCADIS 2016).
3. Samples analyzed for metals using USEPA Method 6010.

ug/L	Micrograms per liter
	Indicates an exceedance of an SCG
12.5	Bold indicates a detection
< 3.0	Compound not detected above its laboratory quantification limit
USEPA	United State Environmental Protection Agency
NYSDEC	New York State Department of Environmental Conservation
SCGs	Standards, Criteria, and Guidance values
OU	Operable Unit

Figures

SOURCE:
USGS 7.5 MIN. AMITYVILLE QUADRANGLE, AMITYVILLE, N.Y., 1994, FREEPORT QUADRANGLE, FREEPORT, N.Y., 1994,
HICKSVILLE QUADRANGLE, HICKSVILLE, N.Y., 1967, PHOTOREVISED 1979, HUNTINGTON, N.Y., 1967, PHOTOREVISED 1979

0 2000' 4000'

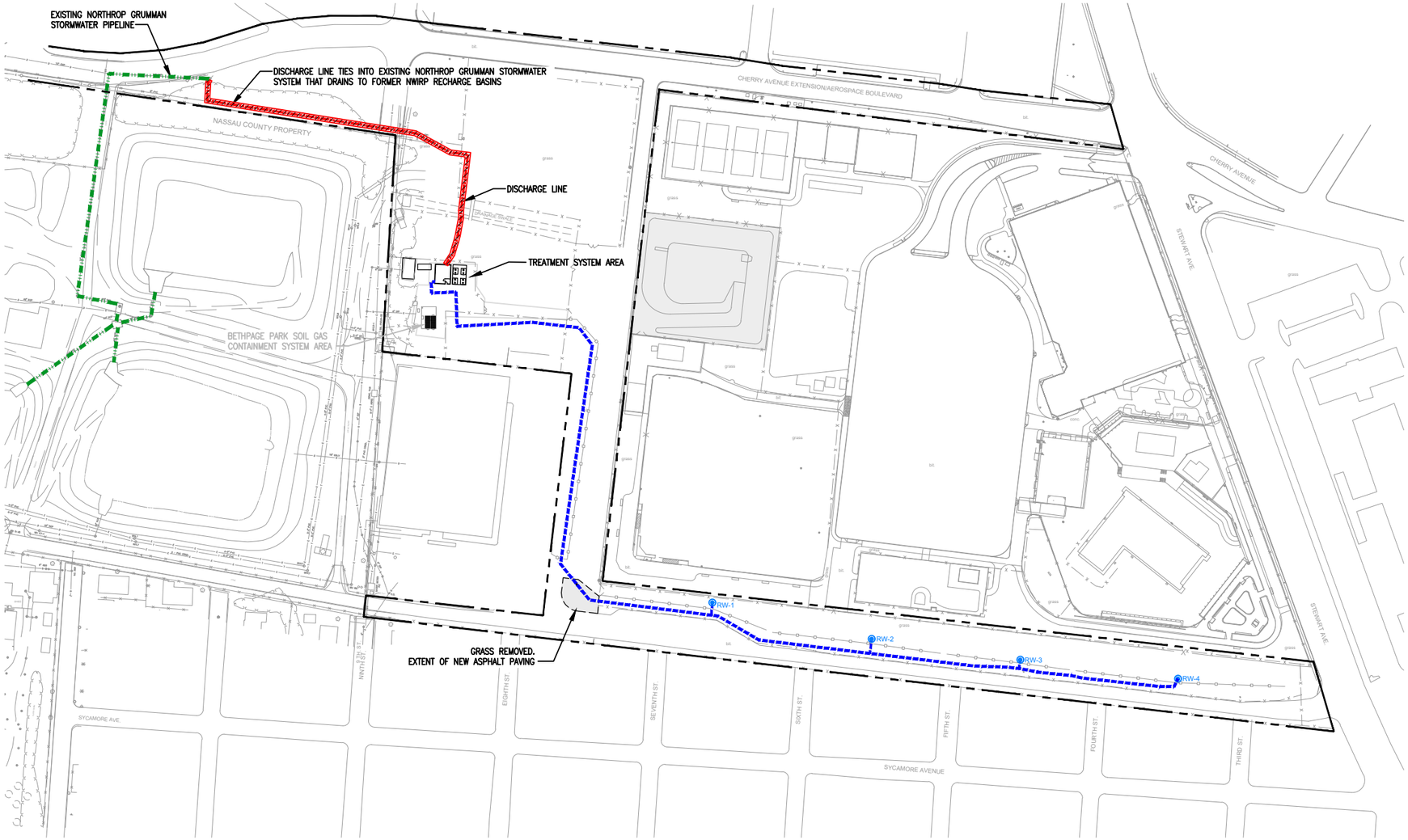
SCALE IN FEET

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

SITE LOCATION

ARCADIS

FIGURE
1

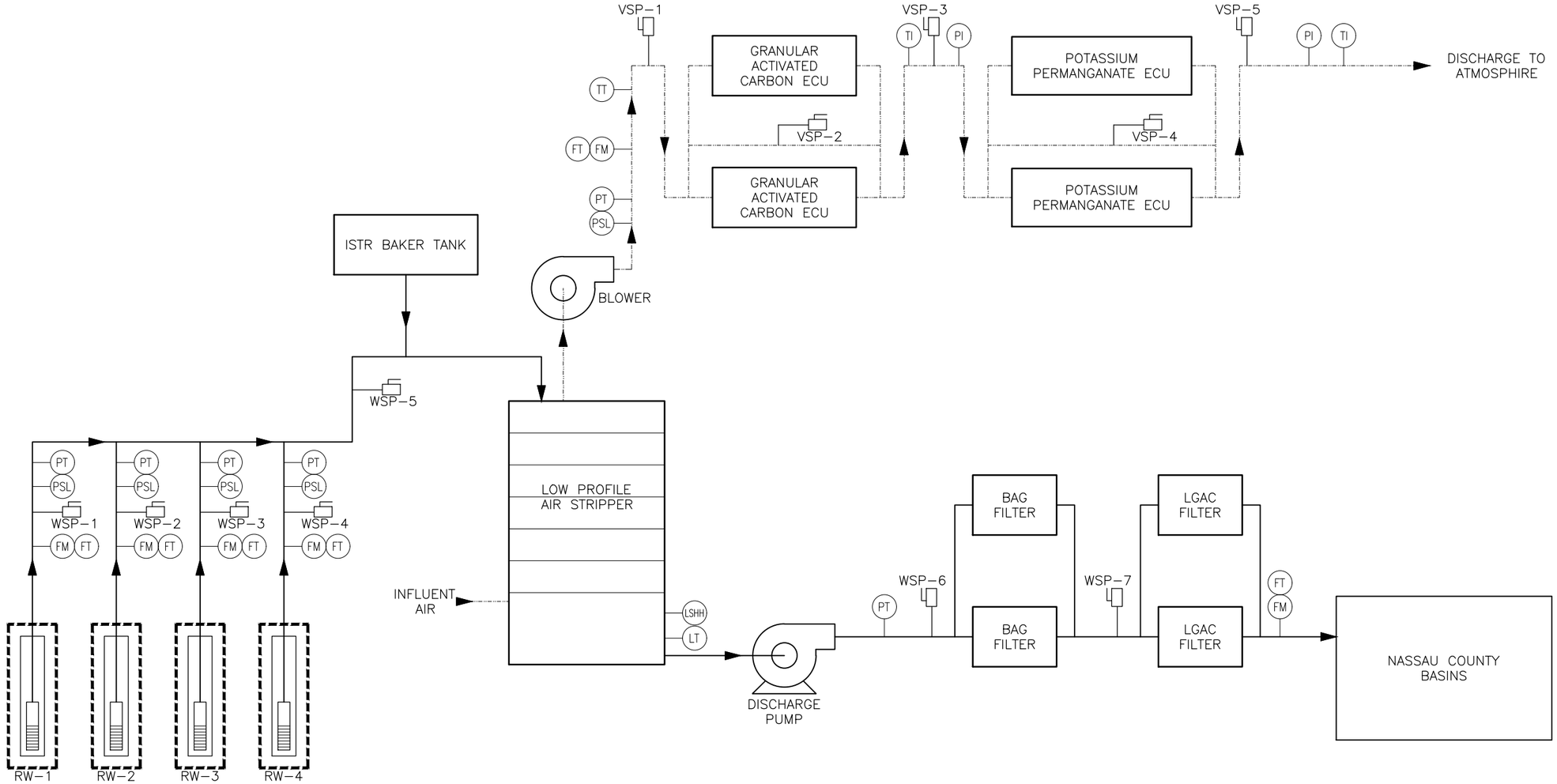


BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

SITE AND GROUNDWATER CONTAINMENT SYSTEM

ARCADIS

FIGURE
2



LEGEND:

- PROCESS WATER
- PROCESS AIR
- FM — INSTRUMENT
- SAMPLE PORT
- FLOW DIRECTION
- FM — FLOW METER
- FT — FLOW RATE TRANSMITTER
- PSL — PRESSURE VACUUM LOW
- PT — PRESSURE TRANSMITTER
- PI — PRESSURE INDICATOR
- LSHH — LEVEL SWITCH HIGH HIGH
- LT — LEVEL TRANSMITTER
- TT — TEMPERATURE TRANSMITTER
- TI — TEMPERATURE INDICATOR
- WSP — WATER SAMPLE PORT
- VSP — VAPOR SAMPLE PORT
- ECU — EMISSION CONTROL UNIT
- LGAC — LIQUID PHASE GRANULAR ACTIVATED CARBON

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

GROUNDWATER TREATMENT SYSTEM PROCESS SCHEMATIC, PROCESS FLOW DIAGRAM, AND MONITORING LOCATIONS

ARCADIS

FIGURE 3


CHERRY AVENUE EXTENSION/AEROSPACE BOULEVARD
FORMER NURSERY AREAS
BALL FIELDS
grass
OU3 BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM (BPGWCS) BUILDINGS
OU3 BETHPAGE PARK SOIL GAS CONTAINMENT SYSTEM (BPSGCS) BUILDINGS
DRAINAGE SWALE
McKAY FIELD
ACCESS ROAD
FORMER TRANSFORMER AREA
ARUMDAUN PRESBYTERIAN CHURCH VISION CENTER (FORMER GRUMMAN PLANT 24)
PARKING LOT
TENNIS COURTS
PADDLEBALL COURTS
BASKETBALL COURTS
B30MW-1
B24MW-2
RECHARGE BASIN
SKATE PARK
TOWN STORAGE AREA
STORAGE BUILDING
BLDG
ACCESS ROAD
GATE
BASEBALL FIELD
PZ-10A
PARKING LOT
bit.
CHERRY AVENUE
STEWART AVE.
BETHPAGE HIGH SCHOOL PROPERTY
conc.
POOL HOUSE
INGROUND SWIMMING POOL
1 STORY MASONRY
POOL AREA
PLAYGROUND
BCPMW-3
BCPMW-2
PZ-5A
PZ-5B
PZ-5C
RW-1
B24MW-3
BCPMW-4-1
BCPMW-4-2
BCPMW-4-3
PZ-1A
PZ-1B
PZ-1C
RW-2
PZ-2A
PZ-2B
PZ-2C
PZ-8A
PZ-8B
PZ-8C
FORMER GRUMMAN PLANT 24 ACCESS ROAD PROPERTY
RW-3
PZ-6A
PZ-6B
BCPMW-6-1
BCPMW-6-2
RW-4
PZ-7A
PZ-7B
BCPMW-7-1
PZ-4
PZ-3
GRASS REMOVED
EXTENT OF NEW ASPHALT PAVING
EIGHTH ST.
SEVENTH ST.
SIXTH ST.
FIFTH ST.
FOURTH ST.
THIRD ST.
MW-204-1
MW-205-1
MW-206-1
MW-200-1
MW-201-1
MW-202-1
MW-203-1
SYCAMORE AVENUE
MW-207-1a
MW-207-1b
MW-208-1

EXPLANATION:

— · —	NORTHROP GRUMMAN PROPERTY LINE
— x — x —	FENCE
	BASIN
bit.	BITUMINOUS PAVEMENT
MW-200-1	MONITORING WELL
RW-2	REMEDIAL WELL
PZ-2C	PIEZOMETER

NOTES:

1. MONITORING WELLS, REMEDIAL WELLS, AND PIEZOMETERS SURVEYED TO NORTH AMERICAN DATUM (NAD) 83.

0 100' 200'
APPROXIMATE SCALE IN FEET

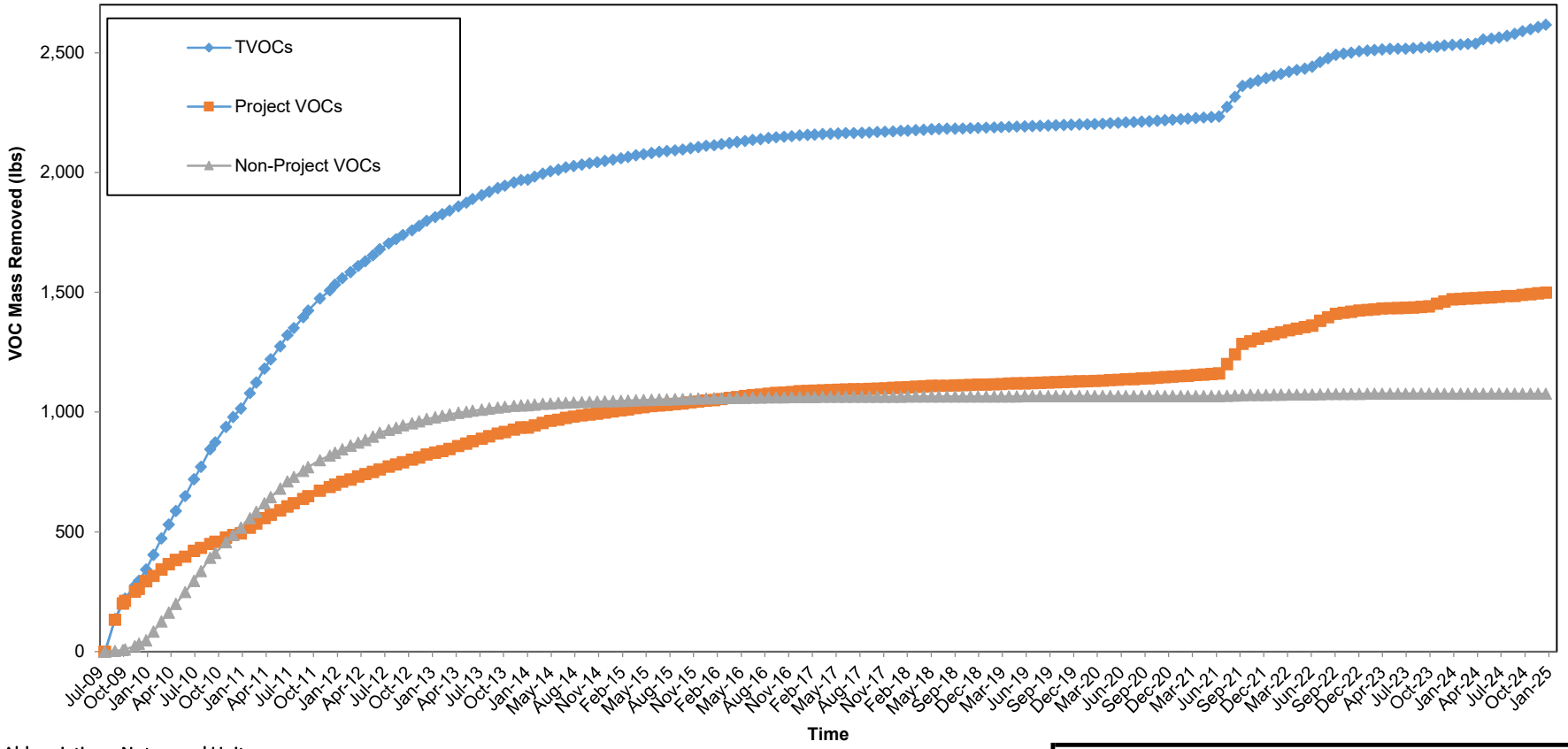
BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

GROUNDWATER MONITORING NETWORK SITE PLAN

ARCADIS

FIGURE 4

CITY:SYRACUSE,NY DIV/GROUP:ENV DB:A.SANCHEZ LD:ALS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* PLOTTED: 8/16/2018 1:19 PM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ---



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound
TVOCs = Total VOCs removed

Project VOCs = sum of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; tetrachloroethene; trichloroethene; vinyl chloride; cis-1,2-dichloroethene; trans-1,2-dichloroethene; benzene; toluene; and total xylenes.
Non-Project VOCs = sum of VOCs that are not Project VOCs.

1. A notable increase in VOC mass removal was observed between Q3 2021 and Q1 2022 due to the increase in TVOCs detected (Figures 6A)
2. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

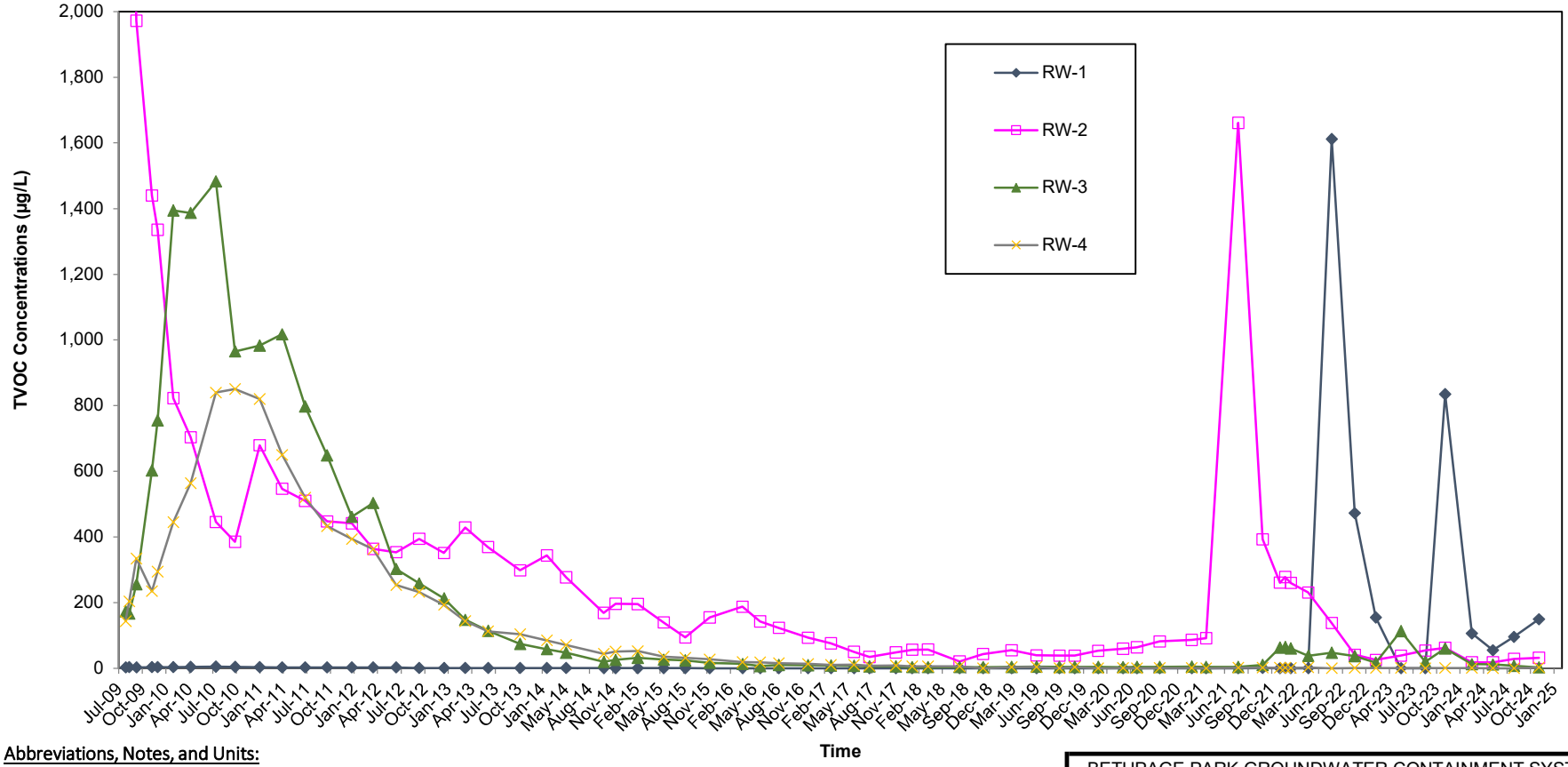
lbs = pounds

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

CUMULATIVE TOTAL, PROJECT, AND NON-PROJECT VOC MASS REMOVED

ARCADIS

FIGURE
5



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound
TVOCs = Total VOCs detected

1. Results prior to September 10, 2009 are not shown to improve figure clarity. The TVOC concentrations were greater than 2,000 µg/L. See previous reports for full data set.
2. A notable increase in TVOCs was detected in the August 13, 2021, sample from RW-2. This increase is likely due to the ISTR system activities on the Bethpage Community Park property
3. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells. A notable increase in TVOCs was detected in the August 22, 2022 sample from RW-1, which is likely due to the addition of BCPMW-4-1 and BCPMW-4-2.
5. A notable increase in VOCs was detected in the November 07, 2023, RW-1 sample. At the time the sample was collected, the replacement of pumps and cleaning of the lines of recovery wells 4-1 and 4-2 (completed on November 6, 2023) likely contributed to the high project VOCs concentration reported.

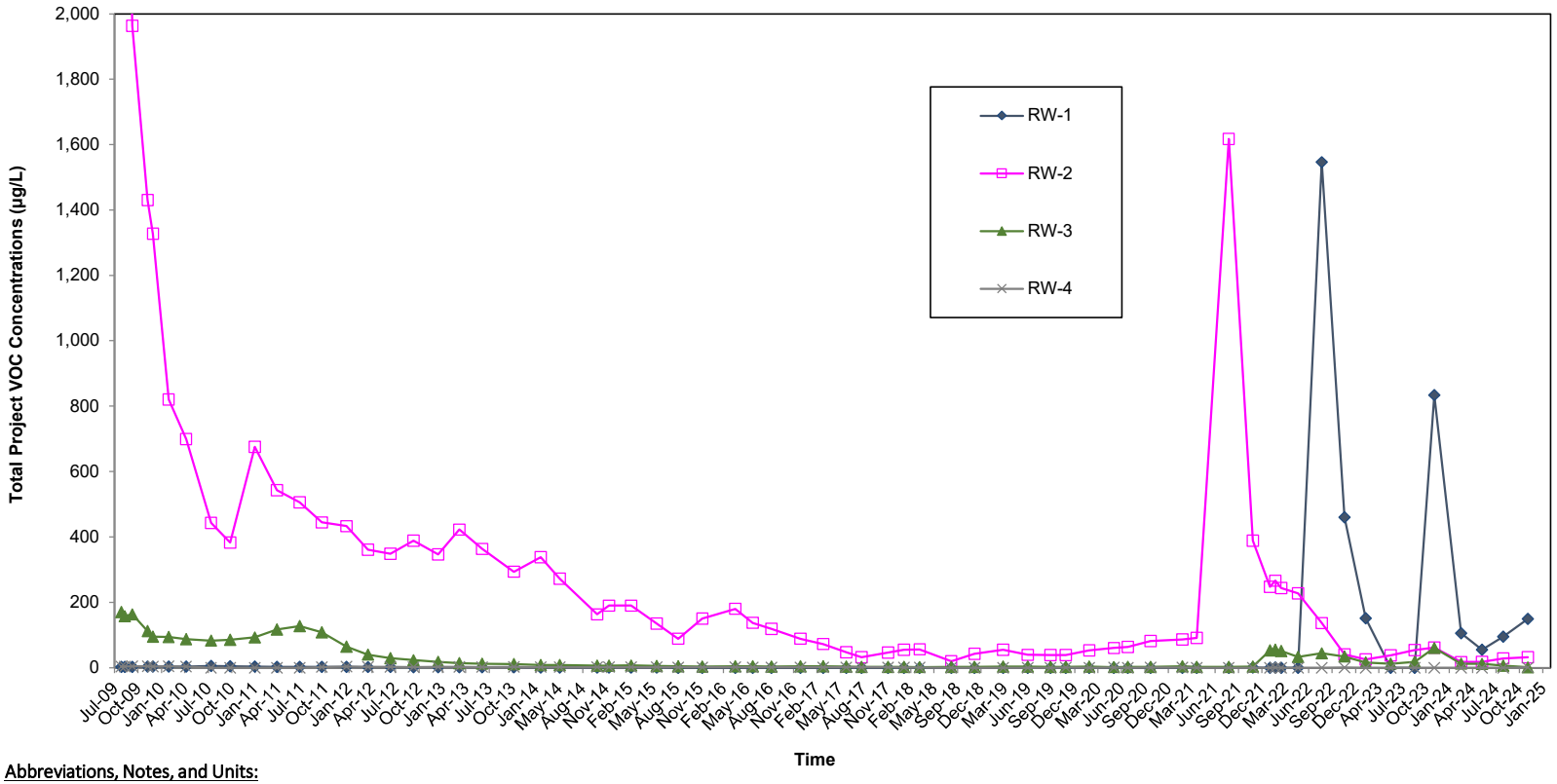
µg/L = micrograms per liter

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

REMEDIAL WELL TOTAL VOC CONCENTRATIONS

ARCADIS

FIGURE
6A



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound
TVOCs = Total VOCs detected

Project VOCs = sum of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; tetrachloroethene; trichloroethene; vinyl chloride; cis-1,2-dichloroethene; trans-1,2-dichloroethene; benzene; toluene; and total xylenes.

1. Results prior to September 10, 2009 are not shown to improve figure clarity. Total Project VOC concentrations are greater than 2,000 µg/L. See previous reports for full data set.
2. A notable increase in Project VOCs was detected in the August 13, 2021, sample from RW-2. This increase is likely due to the ISTR system activities on the Bethpage Community Park property
3. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells. A notable increase in TVOCs was detected in the August 22, 2022 sample from RW-1, which is likely due to the addition of BCPMW-4-1 and BCPMW-4-2.
4. A notable increase in VOCs was detected in the November 07, 2023, RW-1 sample. At the time the sample was collected, the replacement of pumps and cleaning of the lines of recovery wells 4-1 and 4-2 (completed on November 6, 2023) likely contributed to the high project VOCs concentration reported.

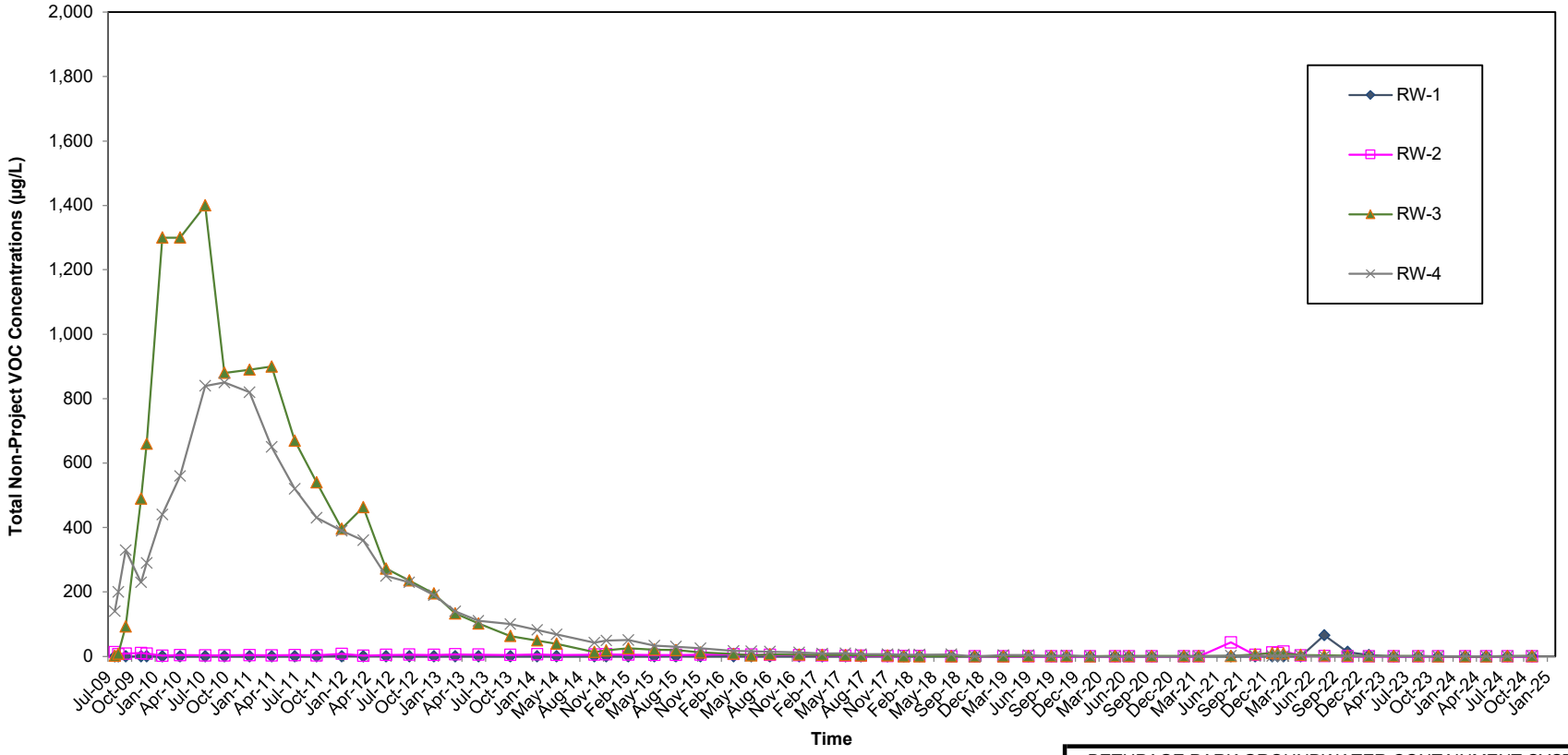
µg/L = micrograms per liter

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

REMEDIAL WELL PROJECT VOC CONCENTRATIONS

ARCADIS

FIGURE
6B



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound
TVOCs = Total VOCs detected.

Non-Project VOCs = sum of TVOCs that are not Project VOCs.

1. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells. A notable increase in TVOCs was detected in the August 22, 2022 sample from RW-1, which is likely due to the addition of BCPMW-4-1 and BCPMW-4-2.

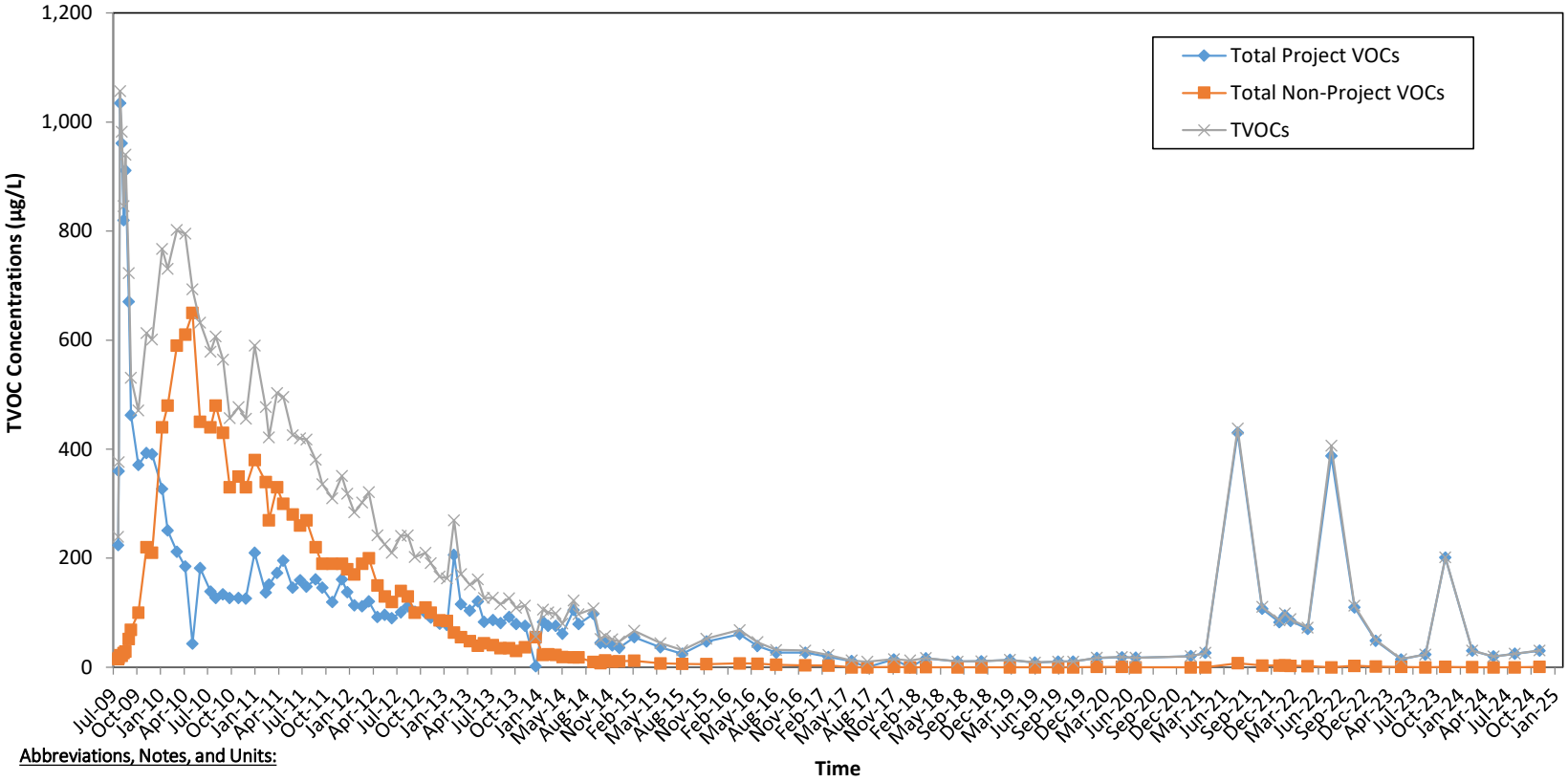
µg/L = micrograms per liter

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

REMEDIAL WELL NON-PROJECT VOC CONCENTRATIONS

ARCADIS

FIGURE
6C



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound
TVOCs = Total VOCs detected.

Project VOCs = sum of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; tetrachloroethene; trichloroethene; vinyl chloride; cis-1,2-dichloroethene; trans-1,2-dichloroethene; benzene; toluene; and total xylenes.

Non-Project VOCs = sum of VOCs that are not Project VOCs.

1. Quarter 4 2020 sampling was conducted during ISTR Baker Tank discharge. The combined Influent sample port (WSP-5) is located upstream of the ISTR connection into the influent line. Due to this setup, the combined influent port (WSP-5) was not sampled as it would not be representative of the true combined influent.
2. A notable increase in VOCs was detected in the August 13, 2021, system influent sample. This increase is likely due to the ISTR system activities on the Bethpage Community Park property
3. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.A notable increase in TVOCs was detected in the August 22, 2022 sample from RW-1, which is likely due to the addition of BCPMW-4-1 and BCPMW-4-2.
4. A notable increase in VOCs was detected in the November 07, 2023, sytem influent sample. At the time the sample was collected, the replacement of pumps and cleaning of the lines of recovery wells 4-1 and 4-2 (completed on November 6, 2023) likely contributed to the high project VOCs concentration reported.

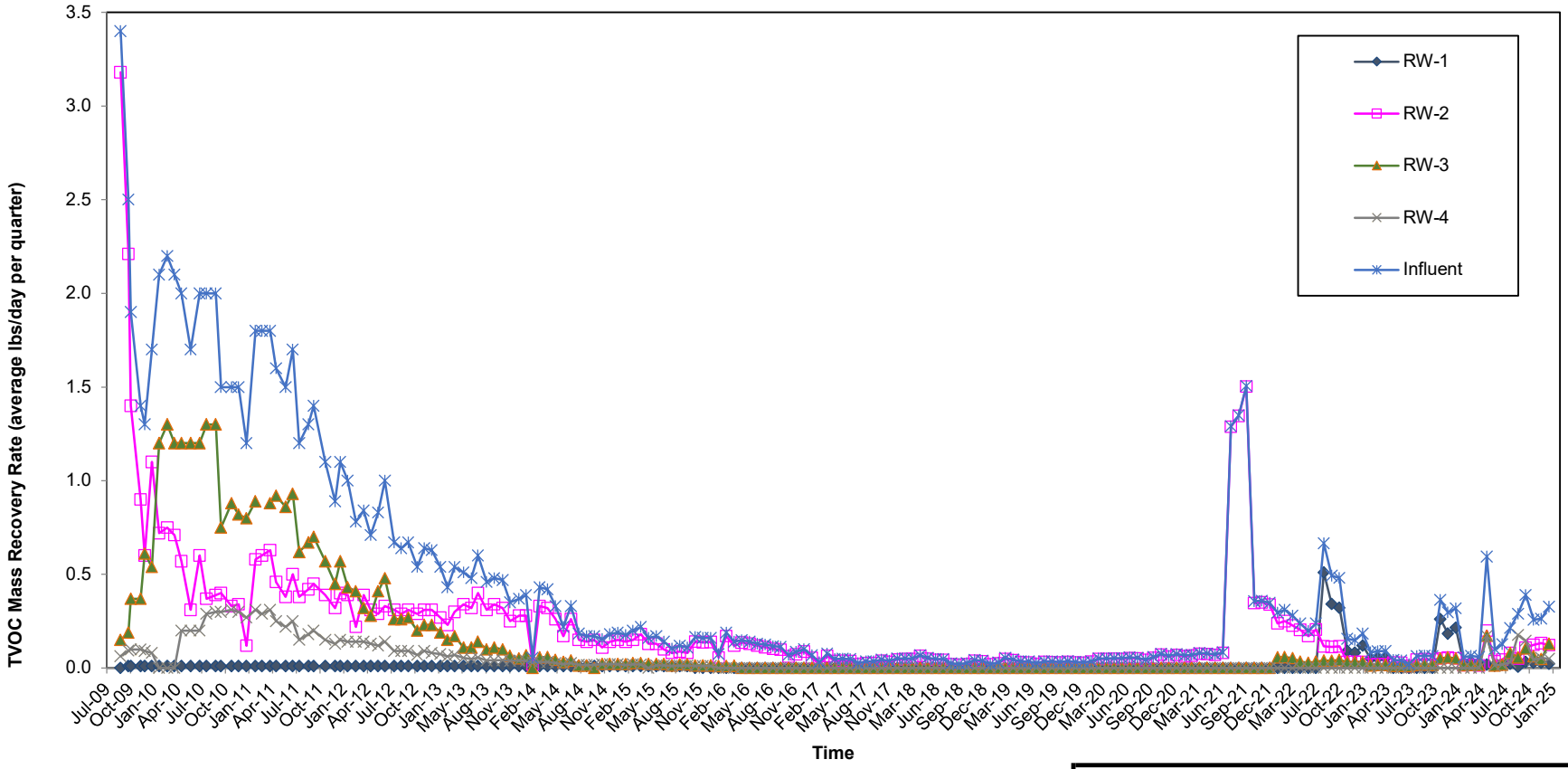
µg/L = micrograms per liter

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

INFLUENT TOTAL, PROJECT AND NON-PROJECT VOC CONCENTRATIONS

ARCADIS

FIGURE
7



Abbreviation, Notes, and Units:

VOC = Volatile Organic Compound
TVOCs = Total VOCs

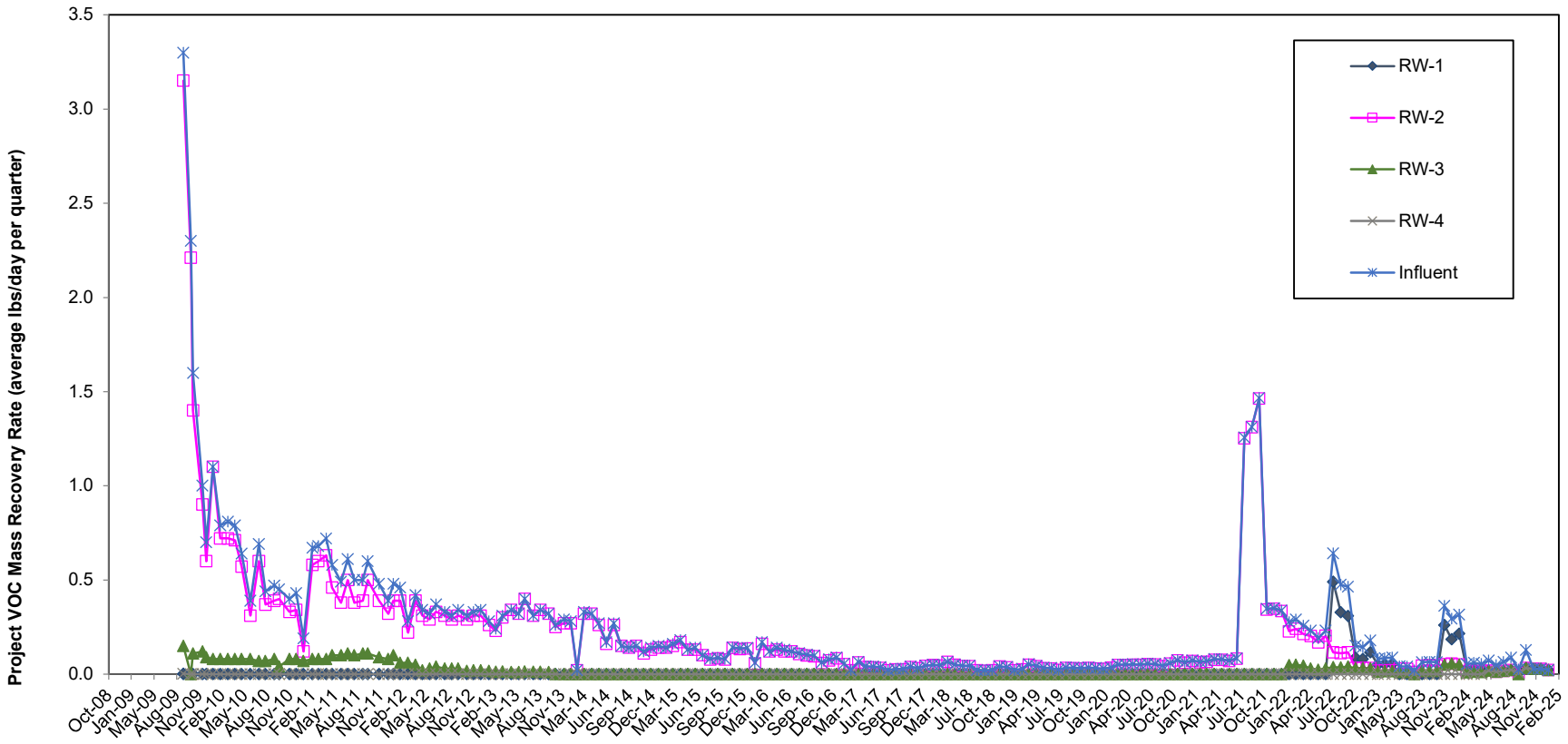
1. A notable increase in TVOC mass recovery rates was observed between Q3 2021 and Q1 2022, and Q3 2023 and Q4 2023 due to the increase in TVOCs detected (Figure 6A)
2. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.A notable increase in TVOCs was detected in the August 22, 2022 sample from RW-1, which is likely due to the addition of BCPMW-4-1 and BCPMW-4-2.

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

TOTAL VOC MASS RECOVERY RATES

ARCADIS

FIGURE
8A



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound

Project VOCs = Sum of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; tetrachloroethene; trichloroethene; vinyl chloride; cis-1,2-dichloroethene; trans-1,2-dichloroethene; benzene; toluene; and total xylenes

1. A notable increase in TVOC mass recovery rates was observed between Q3 2021 and Q1 2022, and Q3 2023 and Q4 2023 due to the increase in TVOCs detected (Figure 6B)
2. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells. A notable increase in TVOCs was detected in the August 22, 2022 sample from RW-1, which is likely due to the addition of BCPMW-4-1 and BCPMW-4-2.

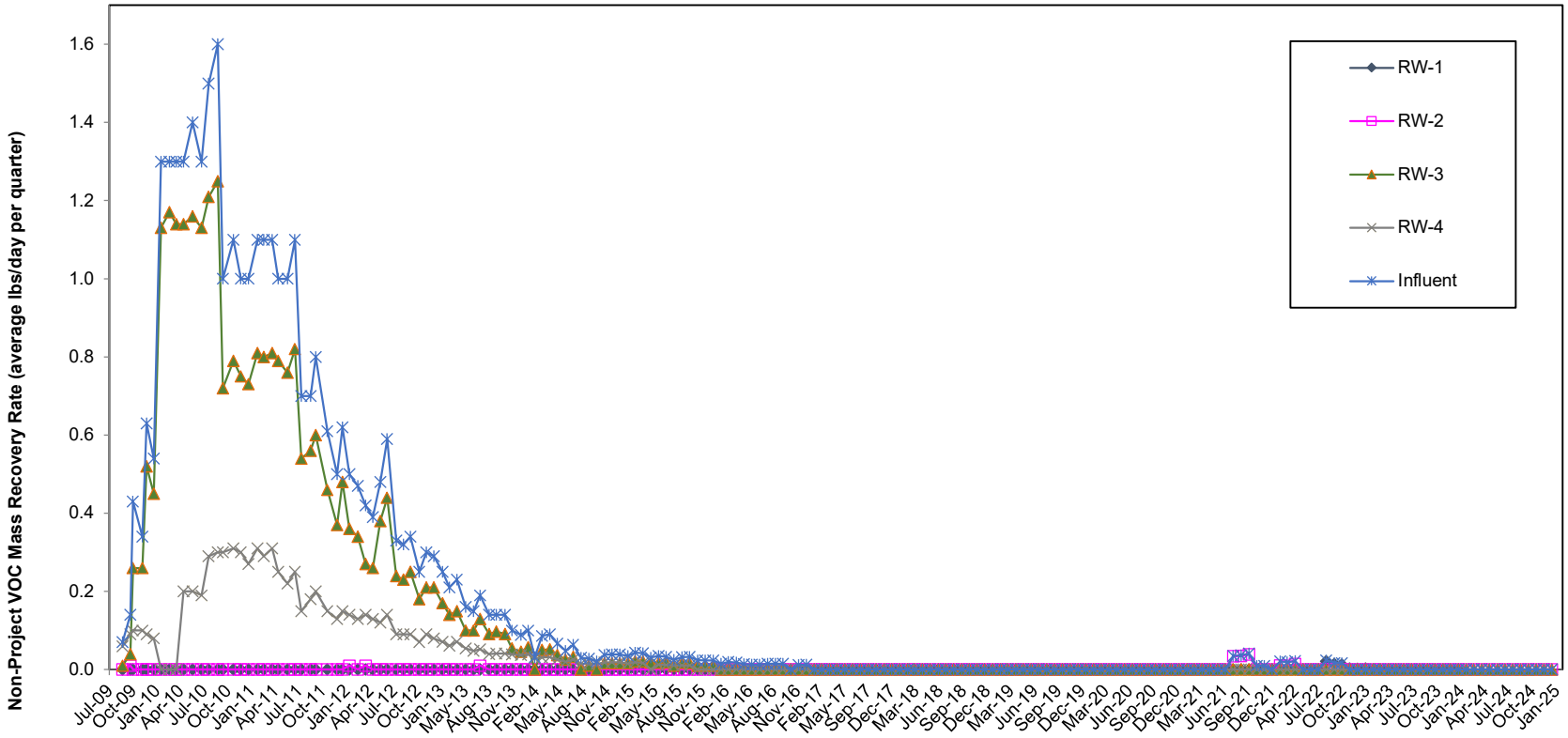
lbs/day = pounds per day

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

PROJECT VOC MASS RECOVERY RATES

ARCADIS

FIGURE
8B



Abbreviations, Notes, and Units:

VOC = Volatile Organic Compound

Non-Project VOCs = sum of VOCs that are not Project VOCs.

1. As of August 4, 2022 the RW-1 concentration is representative of the addition of BCPMW-4-1 and BCPMW-4-2 that were added as additional recovery wells.

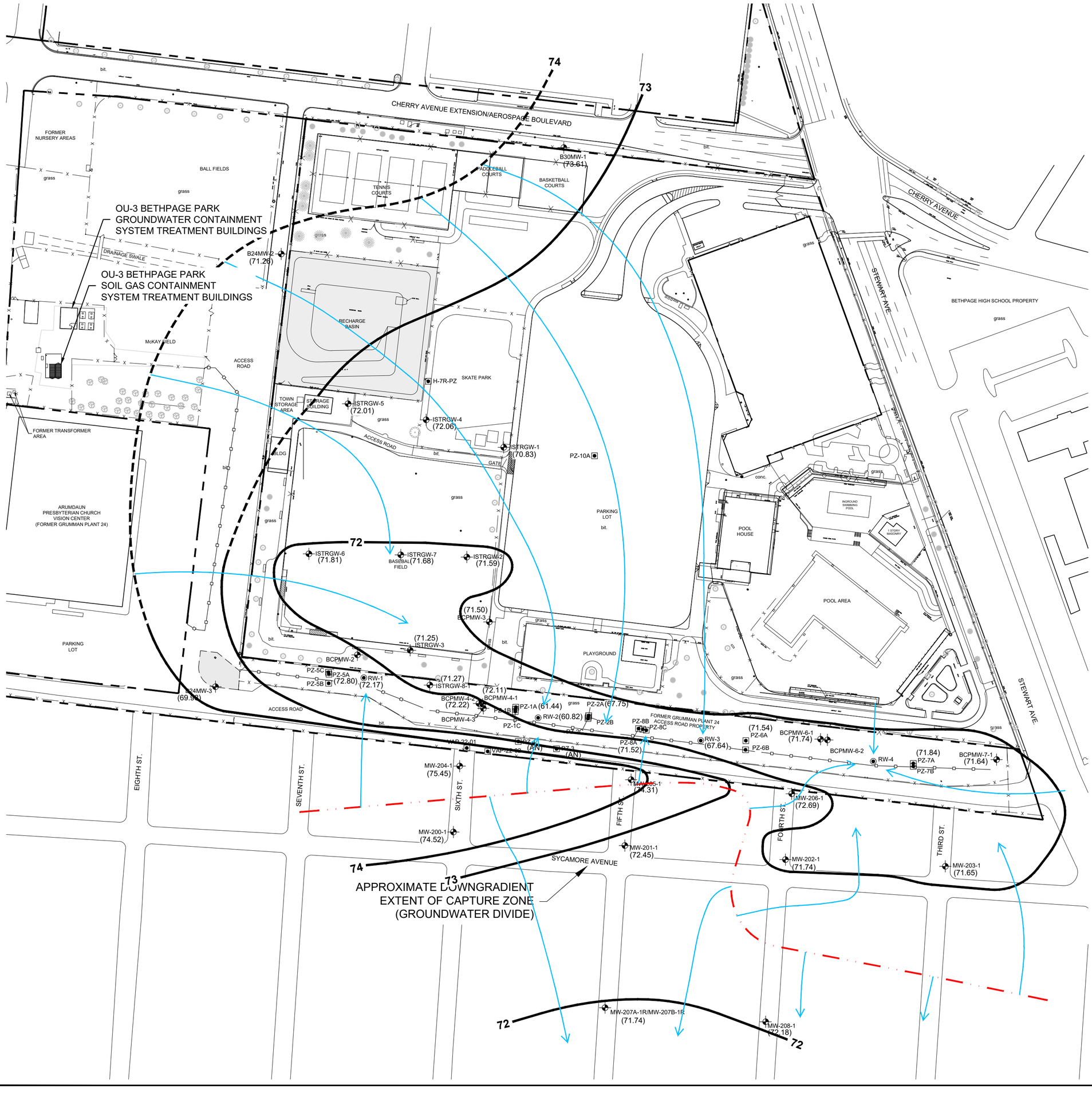
lbs/day = pounds per day

BETHPAGE PARK GROUNDWATER CONTAINMENT SYSTEM
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

NON-PROJECT VOC MASS RECOVERY RATES

ARCADIS

FIGURE
8C



EXPLANATION:

- NORTHROP GRUMMAN PROPERTY LINE
- FENCE
- BASIN
- bit. BITUMINOUS PAVEMENT
- MW-200-1 MONITORING WELL
- RW-2 REMEDIAL WELL
- PZ-2C PIEZOMETER
- (71.90) WATER-LEVEL ELEVATION (FEET MEAN SEA LEVEL)
- 70 GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL (DASHED WHERE LESS CONTROL AVAILABLE)
- DIRECTION OF THE HORIZONTAL COMPONENT OF GROUNDWATER FLOW
- GROUNDWATER DIVIDE
- (AN) ANOMALOUS READING

NOTES:

1. MONITORING WELLS, REMEDIAL WELLS, AND PIEZOMETERS SURVEYED TO NORTH AMERICAN HORIZONTAL DATUM (NAD) 83.
2. WATER LEVEL ELEVATIONS CALCULATED FROM DATA COLLECTED NOVEMBER 2023.
3. NAVD - NORTH AMERICAN VERTICAL DATUM 1988.

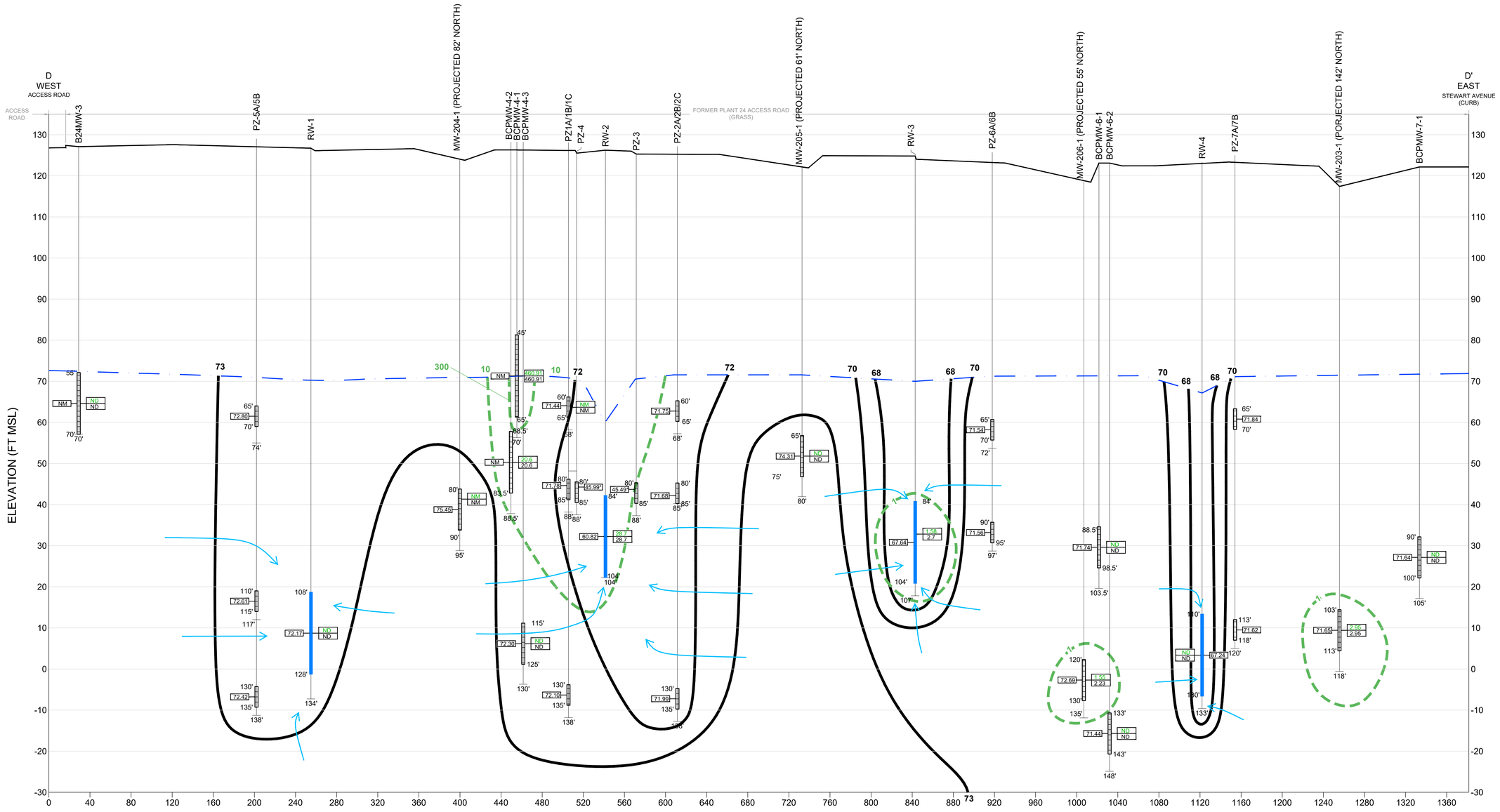
0 100' 200'
SCALE IN FEET

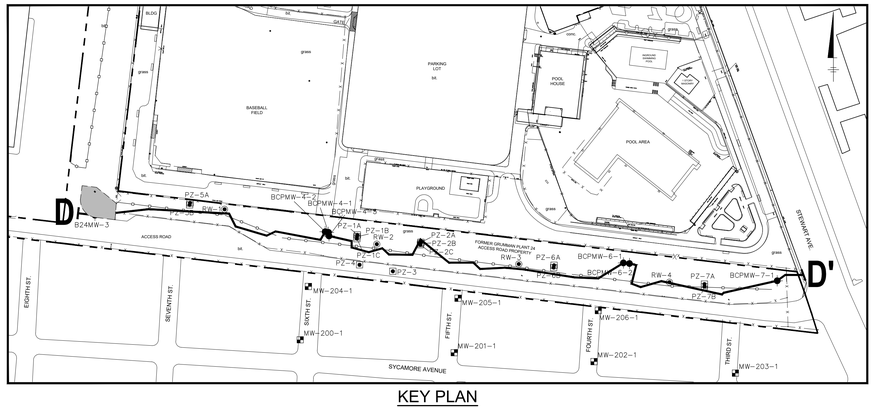
NORTHROP GRUMMAN
BETHPAGE, NEW YORK

GROUNDWATER MONITORING NETWORK AND CONFIGURATION OF THE SHALLOW POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW DIRECTIONS FOURTH QUARTER 2024

ARCADIS

FIGURE 9

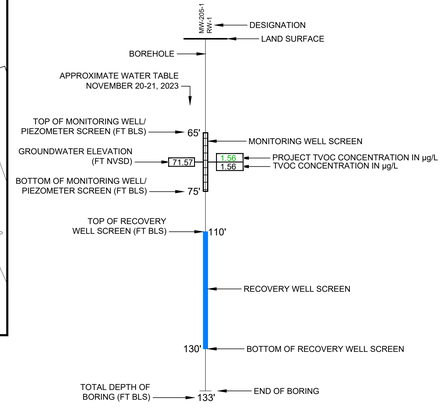


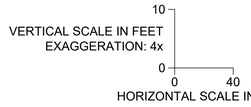


KEY PLAN
SHOWING CROSS SECTION D-D'

0 100' 200'
APPROXIMATE SCALE IN FEET

EXPLANATION





DEFINITIONS:
FT - FEET
NAVD - NORTH AMERICAN VERTICAL DATUM 1988
BLS - BELOW LAND SURFACE
µg/L - MICROGRAMS PER LITER
TVOC - TOTAL VOLATILE ORGANIC COMPOUND
NM - NOT MEASURED
ND - NON DETECT
AN - ANOMALOUS READING

LEGEND:

68 GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL, DASHED WHERE LESS CONTROL AVAILABLE

VERTICAL DIRECTION OF GROUNDWATER FLOW

PROJECT TVOC CONTOUR IN µg/L, DASHED WHERE LESS CONTROL AVAILABLE

* ANOMALOUS READING

NOTES:

1. WATER LEVEL ELEVATIONS CALCULATED FROM DATA COLLECTED QUARTER 4, 2024.
2. WELL TVOC/PROJECT TVOC DATA FROM THE JULY AND AUGUST 2024 SAMPLING ROUND. RESULT REPRESENTATIVE OF ENTIRE WELL SCREEN INTERVAL.
3. TVOC CONTOURS ARE BASED ON PROJECT TVOC DATA, SEE NOTES 2 AND 5.
4. SEE FIGURE 9 FOR LOCATION OF EXTENT OF CAPTURE ZONE.
5. PROJECT VOCS ARE VOCS THAT MAY BE RELATED TO FORMER GRUMMAN HISTORICAL ACTIVITIES. NON-PROJECT VOCS ARE VOCS THAT ARE NOT RELATED TO FORMER GRUMMAN ACTIVITIES BUT HAVE BEEN DETECTED IN THE SITE AREA. PLEASE REFER TO THE REPORT TABLES FOR LISTS OF PROJECT AND NON-PROJECT VOCS.
6. REFER TO TABLE 7 FOR PUMPING RATES OF REMEDIAL WELLS.
7. RW-4 WATER LEVEL ELEVATION CALCULATED FROM DATA COLLECTED DURING QUARTER 3, 2024.

NORTHROP GRUMMAN
OPERABLE UNIT 3
ONCT SYSTEM
BETHPAGE, NEW YORK

CROSS SECTION D-D' SHOWING TVOCs IN GROUNDWATER AND DIRECTION OF VERTICAL GROUNDWATER FLOW FOURTH QUARTER 2024

ARCADIS

FIGURE
10

Appendix A

Well Construction Information and Environmental Effectiveness Monitoring Program

Appendix A
Well Construction Information and Environmental Effectiveness Monitoring Program
Bethpage Park Groundwater Containment System
Operable unit 3 (Former Grumman Settling Ponds)
Bethpage, New York

Well ID	Well Diameter (inches)	Depth to Screen		Screen Length (ft)	Well Depth (ft)	Well Materials	Water Levels [3]	MONITORING ACTIVITY			
		Top (ft bls)	Bottom (ft bls)					WATER QUALITY [4]			
								VOC	SVOC	Cd/Cr	Fe/Mn
Monitoring Wells											
BCPMW-1	2	50	65	15	65	Sch. 40 PVC	Quarterly	Baseline	--	Baseline	--
BCPMW-2	2	60	75	15	75	Sch. 40 PVC	Quarterly	Baseline	--	Baseline	Baseline
BCPMW-3	2	59	74	15	74	Sch. 40 PVC	Quarterly	Baseline	--	Baseline	Baseline
BCPMW-4-1	4	45	65	20	70	Sch. 40 PVC	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	Baseline
BCPMW-4-2	4	68.5	83.5	15	88.5	Sch. 40 PVC	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	Baseline
BCPMW-4-3	4	115	125	10	130	Sch. 40 PVC	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	Baseline
BCPMW-5-1	4	50	65	15	70	Sch. 80 PVC/ SS	Quarterly	Baseline	--	Baseline	Baseline
BCPMW-6-1	4	88.5	98.5	10	103.5	Sch. 40 PVC	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
BCPMW-6-2	4	133	143	10	148	Sch. 40 PVC	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
BCPMW-7-1	4	90	100	10	105	Sch. 40 PVC	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
B24MW-2	2	54	74	20	74	PVC	Quarterly	Baseline/Annual	Annual	Baseline	--
B24MW-3	2	55	70	15	70	PVC	Quarterly	Baseline/Annual	Annual	Baseline	--
B30MW-1	2	57	72	15	72	PVC	Quarterly	Baseline/Annual	Annual	Baseline	--
MW-200-1	4	85	95	10	100	Sch. 40 PVC/ SS	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
MW-201-1	4	70	80	10	85	Sch. 40 PVC/ SS	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
MW-202-1	4	125	135	10	140	Sch. 40 PVC/ SS	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
MW-203-1	4	103	113	10	118	Sch. 40 PVC/ SS	Quarterly	Baseline/Semiannual [5]	Semiannual	Baseline/Annual	--
MW-204-1	4	80	90	10	95	Sch. 40 PVC/ SS	Quarterly	Annual	Annual	--	--
MW-205-1 [6]	4	65	75	10	80	Sch. 40 PVC/ SS	Quarterly	Annual	Annual	--	--
MW-206-1 [6]	4	120	130	10	135	Sch. 40 PVC/ SS	Quarterly	Annual	Annual	--	--
MW-207A-1R [7]	4	120	130	10	135	Sch. 40 PVC/ SS	Quarterly	Annual	Annual	--	--
MW-207B-1R [7]	4	210	220	10	225	Sch. 40 PVC/ SS	Quarterly	Annual	Annual	--	--
MW-208-1 [6]	4	80	90	10	92	Sch. 40 PVC/ SS	Quarterly	Annual	Annual	--	--
Remedial Wells [4]											
RW-01	8	108	128	20	134	Sch. 80 PVC/SS	Quarterly	Baseline/Quarterly	Quarterly	Baseline/Annual	--
RW-02	6	84	104	20	104	Steel/SS	Quarterly	Baseline/Quarterly	Quarterly	Baseline/Annual	--
RW-03	8	84	104	20	107	Sch. 80 PVC/SS	Quarterly	Baseline/Quarterly	Quarterly	Baseline/Annual	--
RW-04	8	110	130	20	133	Sch. 80 PVC/SS	Quarterly	Baseline/Quarterly	Quarterly	Baseline/Annual	--

Notes and Abbreviations on Last Page

Well ID	Well Diameter (inches)	Depth to Screen		Screen Length (ft)	Well Depth (ft)	Well Materials	Water Levels [3]	MONITORING ACTIVITY			
								WATER QUALITY [4]			
		Top (ft bls)	Bottom (ft bls)					VOC	SVOC	Cd/Cr	Fe/Mn
Piezometers											
PZ-01a	2	60	65	5	68	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-01b	1	80	85	5	88	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-01c	1	130	135	5	138	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-02a	2	60	65	5	68	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-02b	1	80	85	5	85	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-02c	1	130	135	5	138	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-03	1	80	85	5	88	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-04	1	80	85	5	88	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-05a	2	65	70	5	74	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-05b	1	110	115	5	117	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-05c [6]	2	130	135	5	138	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-06a	2	65	70	5	72	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-06b	1	90	95	5	97	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-07a	2	65	70	5	72	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-07b	1	113	118	5	120	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-08a [6]	2	60	65	5	68	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-08b [6]	2	80	85	5	88	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-08c [6]	2	130	135	5	138	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-09a [6]	2	57	62	5	67	Sch. 40 PVC	Quarterly	--	--	--	--
PZ-10a [6]	2	65	70	5	75	Sch. 40 PVC	Quarterly	--	--	--	--

Notes and Abbreviations on Last Page

Notes and Abbreviations:

(1) Water samples will be collected and analyzed in accordance with the method and procedures described in the BPGWCS OM&M Manual (Arcadis 2016) .

(2) Approximate locations of the wells and piezometers in the OU3 BPGWCS Monitoring Program are shown in Figure 4.

(3) Water Levels will be measured in all wells/piezometers during the baseline monitoring event in accordance with the procedures presented in the BPGWCS OM&M Manual (Arcadis 2016) .

(4) See BPGWCS OM&M Manual (Arcadis 2016) for details of water quality analysis.

(5) Semiannual wells will be monitored annually after Year 1.

(7) Wells installed by ERM in 2015.

(8) Wells installed by EMAGIN in 2017.

Sch. 80 PVC: schedule 80 polyvinyl chloride
Sch. 40 PVC: schedule 40 polyvinyl chloride
BPGWCS: Bethpage Park Groundwater Containment System
SS: stainless steel
Steel: low carbon steel
ft: feet
ft bls: feet below land surface

Table 2. Remedial System Monitoring Program, Bethpage Park Groundwater Containment System, Operable Unit 3 (Former Grumman Settling Ponds), Northrop Grumman Systems, Corporation, Bethpage, New York. [1]

Sample Location/Instrument [1]	Parameter (Method) [2]	Frequency	
		Long-Term [3]	SCADA Data Acquisition
Water Samples [4]			
Remedial Well 1 (WSP-1)	VOCs (USEPA 8260)	Quarterly	NA
	Iron (USEPA 6010)	Annually	NA
	1,4-Dioxane (USEPA 8270)	Quarterly	NA
Remedial Well 2 (WSP-2)	VOCs (USEPA 8260)	Quarterly	NA
	Iron (USEPA 6010)	Annually	NA
	1,4-Dioxane (USEPA 8270)	Quarterly	NA
Remedial Well 3 (WSP-3)	VOCs (USEPA 8260)	Quarterly	NA
	Iron (USEPA 6010)	Annually	NA
	1,4-Dioxane (USEPA 8270)	Quarterly	NA
Remedial Well 4 (WSP-4)	VOCs (USEPA 8260)	Quarterly	NA
	Iron (USEPA 6010)	Annually	NA
	1,4-Dioxane (USEPA 8270)	Quarterly	NA
Air Stripper Influent (WSP-5)	VOCs (USEPA 8260)	Quarterly	NA
	Iron (USEPA 6010)	Quarterly	NA
	1,4-Dioxane (USEPA 8270)	Quarterly	NA
Air Stripper Effluent (WSP-6)	Iron (USEPA 6010)	As Needed	NA
Plant Effluent (WSP-7)	**VOCs (USEPA 8260)**	**Monthly**	NA
	1,4-Dioxane (USEPA 8270)	**Monthly**	NA
	Iron (USEPA 6010)	**Monthly**	NA
	ph (field)	**Monthly**	NA
	Mercury	**Monthly**	NA
Air Samples [4] [5]			
Air Stripper Effluent/ECU-1 Influent (VSP-1)	VOCs (TO-15 Modified)	Quarterly	NA
ECU-1 Effluent/ECU-2 Influent (VSP-2)	VOCs (TO-15 Modified)	As Needed	NA
ECU-2 Effluent/ECU-3 Influent (VSP-3)	VOCs (TO-15 Modified)	As Needed	NA
ECU-3 Effluent/ECU-4 Influent (VSP-4)	VOCs (TO-15 Modified)	As Needed	NA
Total Effluent (VSP-5)	**VOCs (TO-15 Modified)**	**Quarterly**	NA

Table 2. Remedial System Monitoring Program, Bethpage Park Groundwater Containment System, Operable Unit 3 (Former Grumman Settling Ponds), Northrop Grumman Systems, Corporation, Bethpage, New York. [1]

Sample Location/Instrument [1]	Parameter (Method) [2]	Frequency	
		Long-Term [3]	SCADA Data Acquisition
Water Flow Measurements			
Remedial Well RW-1 (FT - 110)	Flow rate (gpm + total gal.)	Weekly	Continuously
Remedial Well RW-2 (FT - 120)	Flow rate (gpm + total gal.)	Weekly	Continuously
Remedial Well RW-3 (FT - 130)	Flow rate (gpm + total gal.)	Weekly	Continuously
Remedial Well RW-4 (FT - 140)	Flow rate (gpm + total gal.)	Weekly	Continuously
Combined Influent (FR - 200)	Flow rate (gpm + total gal.)	Weekly	Continuously
System Effluent (FT-700)	Flow rate (gpm + total gal.)	Weekly	Continuously
Air Flow Measurements			
Air Stripper Effluent (FT-500)	Flow rate (SCFM)	Weekly	Continuously
Water Pressure Measurements			
Remedial Well RW-1 (PT - 110)	Pressure (i.w.g.)	Weekly	Continuously
Remedial Well RW-2 (PT - 120)	Pressure (i.w.g.)	Weekly	Continuously
Remedial Well RW-3 (PT - 130)	Pressure (i.w.g.)	Weekly	Continuously
Remedial Well RW-4 (PT - 140)	Pressure (i.w.g.)	Weekly	Continuously
Air Stripper Effluent (PT-700)	Pressure (i.w.g.)	Weekly	Continuously
Air Temperature & Relatively Humidity Measurements			
Air Stripper Effluent (TT-500)	Temperature	Weekly	Continuously
ECU Mid-Train (TI-503)	Temperature	Weekly	NA
Effluent (TI-603)	Temperature	Weekly	NA

Table 2. Remedial System Monitoring Program, Bethpage Park Groundwater Containment System, Operable Unit 3 (Former Grumman Settling Ponds), Northrop Grumman Systems, Corporation, Bethpage, New York. [1]

Sample Location/Instrument [1]	Parameter (Method) [2]	Frequency	
		Long-Term [3]	SCADA Data Acquisition
Air Pressure Measurements			
Air Stripper Effluent (PT-500)	Pressure (i.w.g.)	Quarterly	Continuously
ECU #1 Influent (PI-501)	Pressure (i.w.g.)	Quarterly	NA
ECU #2 Influent (PI-502)	Pressure (i.w.g.)	Quarterly	NA
ECU #3 Influent (PI-601)	Pressure (i.w.g.)	Quarterly	NA
ECU #4 Influent (PI-602)	Pressure (i.w.g.)	Quarterly	NA
System Effluent (PI-603)	Pressure (i.w.g.)	Quarterly	NA

Notes:

(1) Refer to Appendix E of the Operation, Maintenance and Monitoring Manual for a diagram showing referenced sample locations and measurement points.

(2) Parameters/methods may be modified based on review of short-term and/or long-term testing results. Parameters shown in **Bold** indicate parameters that require NYSDEC notification/approval prior to change in monitoring schedule.

(3) Long-term schedule is tentative. Modification may be required/recommended based on the results of water quality trends.

(4) Samples will be analyzed in accordance with the methods and procedures described in the Sampling and Analysis Plan.

(5) Additional air samples will be collected to help calculate media usage rates and to help determine media changeout frequencies.

Acronyms:

NA	Not applicable	NYSDEC	New York State Department of Environmental Conservation
ECU	Emissions control unit	EPA	U.S. Environmental Protection Agency
VOCs	Volatile organic compounds	SCADA	Supervisory Control And Data Acquisition
gal.	Gallons		
gpm	Gallons per minute		
i.w.g.	Inches water gauge		

Appendix B

Compliance and Performance Program

Appendix B-1
Compliance and Performance Program Elements
Bethpage Park Groundwater Containment System
Operable Unit 3 (Former Grumman Settling Ponds)
Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Sample Location/Instrument [1]	Parameter (Method) [2]	Frequency			
		Short-Term [3]		Long-Term [4]	SCADA Data Acquisition
		(First month)	(Five month period following first month)		
Water Samples [5]					
Remedial Well 1 (WSP-1)	VOCs (USEPA Method 8260C)	Bi-Weekly	Quarterly	Quarterly	NA
	Iron (USEPA 6010C)	Bi-Weekly	Annually	Annually	NA
	Cadmium and Chromium (USEPA 6010C)[11]				
	---		Annually	Annually	NA
	1,4-Dioxane (USEPA Method 522)[12]		Quarterly	Quarterly	NA
Remedial Well 2 (WSP-2)	VOCs (USEPA Method 8260C)	Bi-Weekly	Quarterly	Quarterly	NA
	Iron (USEPA 6010C)	Bi-Weekly	Annually	Annually	NA
	Cadmium and Chromium (USEPA 6010C)[11]				
	---		Annually	Annually	NA
	1,4-Dioxane (USEPA Method 522)[12]		Quarterly	Quarterly	NA
Remedial Well 3 (WSP-3)	VOCs (USEPA Method 8260C)	Bi-Weekly	Quarterly	Quarterly	NA
	Iron (USEPA 6010C)	Bi-Weekly	Annually	Annually	NA
	Cadmium and Chromium (USEPA 6010C)[11]				
	---		Annually	Annually	NA
	1,4-Dioxane (USEPA Method 522)		Quarterly	Quarterly	NA
Remedial Well 4 (WSP-4)	VOCs (USEPA Method 8260C)	Bi-Weekly	Quarterly	Quarterly	NA
	Iron (USEPA 6010C)	Bi-Weekly	Annually	Annually	NA
	Cadmium and Chromium (USEPA 6010C)[11]				
	---		Annually	Annually	NA
	1,4-Dioxane (USEPA Method 522)[12]		Quarterly	Quarterly	NA
Air Stripper Influent (WSP-5)	VOCs (USEPA Method 8260C)	1-hr [6]; Days 1, 3, & Weekly	Monthly	Quarterly	NA
	Iron (USEPA 6010C)	1-hr [6]; Days 1, 3, & Weekly	Monthly	Quarterly	NA
	1,4-Dioxane (USEPA Method 522)[12]		Quarterly	Quarterly	NA
Air Stripper Effluent (WSP-6)	Iron (USEPA 6010C)	1-hr [6]; As Needed	As Needed	As Needed	NA
Plant Effluent (WSP-7)	**VOCs (USEPA Method 8260C and 624)[13]**	**1-hr [6]; Days 1, 3, & Weekly**	**Monthly**	**Monthly**	NA
	Iron (USEPA 6010C)	**1-hr [6]; Days 1, 3, & Weekly**	**Monthly**	**Monthly**	NA
	Mercury (USEPA 7470A) [7]	**1-hr [6]; Days 1, 3, & Weekly**	**Monthly**	**Monthly**	NA
	1,4-Dioxane (USEPA Method 522)[12]		**Monthly**	**Monthly**	NA
	Cadmium and Chromium (USEPA 6010C)[11]				
	---		**Quarterly**	**Quarterly**	NA
	Total Nitrogen, Nitrate + Nitrite (USEPA Method 353.2)[13]		**Monthly**	**Monthly**	NA
	TKN (USEPA Method 351.2)[13]		**Monthly**	**Monthly**	NA
	pH (field) [8]	**1-hr [6]; Days 1, 3, & Weekly**	**Monthly**	**Monthly**	NA
	and		Quarterly	Quarterly	NA
Air Samples [9] [10]					
Air Stripper Effluent/ECU-1 Influent (VSP-1)	VOCs (TO-15 Modified)	Monthly	Monthly	Quarterly	NA
ECU-1 Effluent/ECU-2 Influent (VSP-2)	VOCs (TO-15 Modified)	As Needed	As Needed	As Needed	NA
ECU-2 Effluent/ECU-3 Influent (VSP-3)	VOCs (TO-15 Modified)	As Needed	As Needed	As Needed	NA
ECU-3 Effluent/ECU-4 Influent (VSP-4)	VOCs (TO-15 Modified)	As Needed	As Needed	As Needed	NA
Total Effluent (VSP-5)	**VOCs (TO-15 Modified)**	**Monthly**	**Monthly**	**Quarterly**	NA

See notes on last page.

Sample Location/Instrument [1]	Parameter (Method) [2]	Frequency			
		Short-Term [3]		Long-Term [4]	SCADA Data Acquisition
		(First month)	(Five month period following first month)		
Water Flow Measurements					
Remedial Well RW-1 (FT - 110)	Flow rate (gpm + total gal.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Remedial Well RW-2 (FT - 120)	Flow rate (gpm + total gal.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Remedial Well RW-3 (FT - 130)	Flow rate (gpm + total gal.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Remedial Well RW-4 (FT - 140)	Flow rate (gpm + total gal.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Combined Influent (FR - 200)	Flow rate (gpm + total gal.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
System Effluent (FT-700)	Flow rate (gpm + total gal.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Air Flow Measurements					
Air Stripper Effluent (FT-500)	Flow rate (SCFM)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Water Pressure Measurements					
Remedial Well RW-1 (PT - 110)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Remedial Well RW-2 (PT - 120)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Remedial Well RW-3 (PT - 130)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Remedial Well RW-4 (PT - 140)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Air Stripper Effluent (PT-700)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Weekly	Weekly	Continuously
Air Temperature & Relatively Humidity Measurements					
Air Stripper Effluent (TT-500)	Temperature	Weekly	Weekly	Weekly	Continuously
ECU Mid-Train (TI-503)	Temperature	Weekly	Weekly	Weekly	NA
Effluent (TI-603)	Temperature	Weekly	Weekly	Weekly	NA
Air Pressure Measurements					
Air Stripper Effluent (PT-500)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Monthly	Quarterly	Continuously
ECU #1 Influent (PI-501)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Monthly	Quarterly	NA
ECU #2 Influent (PI-502)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Monthly	Quarterly	NA
ECU #3 Influent (PI-601)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Monthly	Quarterly	NA
ECU #4 Influent (PI-602)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Monthly	Quarterly	NA
System Effluent (PI-603)	Pressure (i.w.g.)	(Daily -1st week) Weekly	Monthly	Quarterly	NA

See notes on last page.

Abbreviations, Notes and Units:

(1) Refer to Figure 3 of this Operation, Maintenance, & Monitoring (OM&M) Report and Appendix E of the Groundwater IRM OM&M Manual (OM&M Manual (ARCADIS 2009)) for a diagram showing referenced sample locations and measurement points.
(2) Parameters/methods may be modified based on review of short-term and/or long-term testing results. Parameters shown in **Bold** indicate parameters that require NYSDEC notification/approval prior to change in monitoring schedule.
(3) Short-term schedule is tentative. Modification may be required/recommended based on the results of start-up and performance testing.
(4) Long-term schedule is tentative. Modification may be required/recommended based on the results of short-term testing or water quality trends.
(5) Water samples will be collected in accordance with the methods described in the Sampling and Analysis Plan, which is included as Appendix A of the OM&M Manual (ARCADIS 2009). Samples will be analyzed in accordance with the methods and procedures described in the Sampling and Analysis Plan.
(6) Per NYSDEC request, a 1-hr pilot test was performed during system shake-down. The 1-hr pilot test samples were also analyzed for Mercury (Hg).
(7) Per the interim treated effluent (water) discharge criteria provided in the NYSDEC letter dated March 19, 2009, select samples were analyzed for Mercury (Hg).
(8) As authorized by the NYSDEC, the pH monitoring frequency was reduced from weekly to monthly beginning on February 8, 2010.
(9) Air samples collected and analyzed in accordance with methods described in the Sampling and Analysis Plan, which is included as Appendix A of the OM&M Manual (ARCADIS 2009).
(10) Additional air samples will be collected to help calculate media usage rates and to help determine media changeout frequencies.
(11) Cadium and Chromium analyses are part of the Environmental Effectiveness Monitoring Program (Table A-1) and the original discharge permit application. They are included here for consistency.
(12) As of July 11 2018, 1,4-Dioxane is analyzed per USEPA Method 8270-SIM-CLLE.
(13) As of November 2017, plant effluent was analyzed for permit equivalency Volatile Organic Compounds (VOCs) using USEPA Method 624; Total Nitrogen is calculated as the sum of Nitrogen, (Nitrate+Nitrite) and Total Kjeldahl Nitrogen (TKN), (CAS number: 14797-55-8, 14797-65-0, and 7727-37-9, respectively) by USEPA Methods 353.2 and 351.2, respectively; Total Iron and Manganese using USEPA Method 200.7.

ECU	Emissions Control Unit
EPA	U.S. Environmental Protection Agency
NA	Not Applicable
---	Not Required
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operation, Maintenance and Monitoring
SCADA	Supervisory Control And Data Acquisition
SPDES	State Pollutant Discharge Elimination System
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds (refer Tables D-3 and D-5 in the Quality Assurance Project Plan (QAPP) (Appendix D of the OM&M Manual (ARCADIS 2009)) for the analyte lists for aqueous and air samples, respectively)
gal	gallons
gpm	gallons per minute
i.w.g.	inches water gauge

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