PERIODIC REVIEW REPORT
JUNE 2020 – OCTOBER 2023

CLINTON WEST PLAZA SITE
CITY OF ITHACA, NEW YORK 14850

NYSDEC Site No. 755015
Work Assignment No. D009812-13

Prepared for:

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TRC Project No. 386554

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

LIST OF ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
COCs	Contaminants of Concern
CVOCs	Chlorinated Volatile Organic Compounds
DCE	Cis 1,2-Dichloroethylene
DER	Division of Environmental Remediation
DTW	Depth to Water
DUSR	Data Usability Summary Reports
ECs	Engineering Controls
EE	Environmental Easement
EN	Environmental Notice
EWP	Excavation Work Plan
ft. bgs.	Feet Below Ground Surface
ICs	Institutional Controls
ID	Identification
ND	Not detected
NYSDEC	New York State Department of Environmental Conservation
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
ROD	Record of Decision
SCG	Standard, Criteria and Guidance
SIM	Selected Ion Monitoring
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVI	Soil Vapor Investigation
TCL	Target Compound List
TICs	Tentatively Identified Compounds
TOC	Top of Casing
TRC	TRC Engineers, Inc.
VOCs	Volatile Organic Compounds
WA	Work Assignment
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency

Executive Summary

Category	Summary/Results
Engineering Controls (ECs)	• Cover System • On-Site Sub-Slab Depressurization System (SSDS) • Off-Site Sub-Slab Depressurization System (SSDS)
Institutional Controls (ICs)	• Engineering Controls (ECs) • Environmental Easement (EE) (2016) • Record of Decision (ROD) (2010) • Site Management Plan (SMP) (2019) • Excavation Work Plan (EWP) • Soil Vapor Investigation (SVI) Evaluation
Site Classification	Class 4
Site Management Plan	SMP Rev. No. 1 – June 2014 SMP Rev. No. 2 – February 2019
Certification/Reporting Period	The Certification Period is defined as 1 year in the SMP. As of October 2020, A Periodic Review Report (PRR) is to be completed every three years.
Inspection	**To be conducted by property owner to ensure EC's are performing as expected**
1. Site Inspection	Semiannual for the first two years after the SMP completion (2019), annually, thereafter. After Severe Weather.
Monitoring	**Frequency**
1. Groundwater	Semiannual for the first two years after the SMP completion (2019), annually, thereafter.
Prior PRR Recommendations	This PRR is the first to be completed for the Site since the SMP was approved in February 2019, and the third PRR overall.
Site Management Activities	Three site inspections, two rounds of groundwater gauging, and two sampling events were performed during this review period: • 6/25/2020 – EC/ICs are in place and performing properly. All monitoring wells were located and reported to be in good condition, excluding MW-14 and TPMW-4, as they appeared to be cover in road debris from plowing. • 6/23/2022 – Site inspection, gauging, and sampling event. EC/ICs are in place and performing properly. Monitoring wells TPMW-3 and MMW-02 were unable to be located during the inspection. Monitoring wells MMW-01, MMW-03, MMW-04, MW-14, TPM-01, TPM-02, TPM-03, TPMW-4, and TPMW-6 were reported to be in good condition and were gauged prior to sample collection utilizing low-flow sampling methods. • 7/25/2023 - Site inspection, gauging, and sampling event. EC/ICs are in place and performing properly. Monitoring wells TPMW-3 and TPM-01 were unable to be located during the inspection. Monitoring wells MMW-01, MMW-02, MMW-03, MMW-04, MW-14, TPMW-4, TPMW-6, TPM-02, and TPM-03 were intact and functional. The casing for monitoring well TPM-03 is missing and monitoring well MMW-02 has a broken casing cap. All located monitoring wells were gauged and sampled using low-flow sampling methods.
Significant Findings or Concerns	(June 2022) Chlorinated volatile organic compounds (CVOCs) were detected in samples from monitoring wells MMW-01 and TPMW-4 above Class GA criteria.

	(July 2023) CVOCs were detected in samples from monitoring wells MMW-01 and TPMW-4 above Class GA criteria.
Recommendations	1. The Site inspection frequency should continue annually and following severe weather events (as needed) to certify that ICs/ECs are functioning as intended. A site inspection report should be completed following each inspection event. 2. Water level measurements should continue to be collected at the site monitoring wells during inspection and groundwater monitoring events. 3. Periodic Review Reports (PRRs) should continue to be submitted to the NYSDEC every three years with the next PRR covering from October 2023 to October 2026. 4. Based on elevated CVOC levels in MMW-01, groundwater should continue to be monitored during the annual Site groundwater sampling events. If levels stay elevated or continue to rise, further delineation may be necessary. 5. TRC recommends removing TPMW-03 from the well list and replacing it with a new monitoring well near its location. TRC also recommends that the MMW-02 well casing cap and the TPM-03 flush mount casing be repaired or replaced.
Cost Evaluation	The total cost of the site management activities during this reporting period was $75,029. This cost includes engineering (e.g., labor and expense) and subcontractor costs (e.g., laboratory, equipment, rentals, etc.). It should be noted that this total does not include any direct costs incurred by the New York State Department of Environmental Conservation (NYSDEC).

Introduction

This PRR has been prepared for the Former Clinton West Plaza site at 609-625 West Clinton Street, Ithaca, Tompkins County, NY, (the Site) and covers the review period of June 2020 through October 2023. This PRR was prepared in accordance with the New York State Department of Environmental Conservation Department of Environmental Remediation Work Assignment No. D009812-13 and NYSDEC Division of Environmental Remediation, Technical Guidance for Site Investigation and Remediation (DER-10). A summary of applicable Site and remedial program information is presented below in the Site Information Summary:

Site Information			
Site Name:	Clinton West Plaza	**NYSDEC Site No:**	755015
Site Location:	609-625 West Clinton Street, Ithaca, Tompkins County, NY	**Remedial Program:**	Inactive Hazardous Waste Disposal
Site Type:	Dry Cleaner	**Classification:**	04
Parcel Identification(s):	79-6-8.2 (609-625 West Clinton Street), Tompkins County Tax Maps	**Parcel Acreage / EE Acreage:**	2.49
Selected Remedy:	Enhanced Anaerobic Bioremediation, SSDS, groundwater monitoring	**Site Contaminates of Concern (COCs):**	• Volatile Organic Compounds (VOCs)
Current Remedial Program Phase:	Post Remedial Action (RA) Site Monitoring; Site Management	**Institutional Controls:**	• ECs • EE (2016) • ROD (2010) • SMP (2019) • EWP • SVI Evaluation
Post-Remediation Monitoring and Sampling Frequency:	Annual – Groundwater sampling and Site inspection	**Engineering Controls:**	SSDS, Cover system, monitoring wells
Monitoring Locations:	21 Monitoring Wells, 3 temporary monitoring wells	**Required Reporting:**	PRR – Every three years

1.1 Current PRR Recommendations

- Severe weather event inspections (and associated reports) should be completed as appropriate.
- Annual Site inspections should continue to verify the ICs and ECs are in-place and effective, and to observe any future development of the Site. One Site inspection report should also be completed following each inspection event.
- Periodic Review Reports (PRRs) should continue to be submitted to the NYSDEC every three years with the next PRR covering the reporting period from October 29, 2023, to October 29, 2026.
- Water level measurements should continue to be collected at the Site monitoring wells during inspection and groundwater monitoring events.

- Based on elevated CVOC concentrations in MMW-01 historically, and in recent sampling events (June 2022 and July 2023), groundwater should continue to be monitored annually during Site groundwater sampling events. If CVOC concentrations stay elevated or continue to rise, further delineation may be necessary.
- Monitoring well TPMW-03 could not be located and has not been sampled since 2020. Based on historic groundwater results, TRC recommends removing the missing monitoring well TPMW-03 from the monitoring well network and replacing TPMW-03 with a new well close to its location. TRC also recommends that the MMW-02 well cap and the TPM-03 well casing be repaired or replaced.

1.2 Site Location, Ownership, and Description

The Site is located at 609-625 West Clinton Street within the Clinton West Plaza in the city of Ithaca, Tompkins County, New York, and is approximately 2.49 acres in size and includes a 36,254 ft² shopping plaza that was constructed in 1970. The Site is recognized as Tax Map Identification (ID) # 79-6-8.2 on the Tompkins County Tax Map. The current owner of the parcel is listed as Ithaca West, LLC., in the SMP. The Site features include large parking areas paved with asphalt. The Site is surrounded by residential neighborhoods and has multiple retail properties at its center, with residential structures to the immediate southwest and east of the property. The Site is bounded by Center Street to the south, retail properties to the north, and residential properties to the West and East. A laundromat, Clinton West Laundry, was located at 609 West Clinton Street within the Clinton West Plaza, Ithaca, New York, but is no longer operational and the space is vacant. The Site location and layout are presented on **Figure 1** and **Figure 2**, respectively.

1.3 Investigation/Remedial History

The Clinton West Plaza site was initially reported as a potential site with contamination after First Niagara Bank of Rochester, New York retained LCS, Inc. (LCS) of Buffalo, New York to conduct an Environmental Transaction Screening, Environmental Site Assessment Report in December 2005 (LCS 2006). The Environmental Site Assessment report concluded that a Phase II investigation was warranted to assess the environmental conditions on-site due to the former operational history of a dry cleaner at the site. LCS completed the Phase II subsurface investigation and supplemental subsurface investigations and determined that soil and groundwater contamination associated with dry cleaning chemicals, notably tetrachloroethene (PCE), existed at the site. PCE is a solvent commonly used in the dry-cleaning process. Based on the findings of the Phase II investigation, the site was listed on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites in New York State as a Class 2 site (Site No. 755015).

An enhanced anaerobic bioremediation system was installed to stimulate direct anaerobic reductive de-chlorination of CVOCs present in groundwater at the site. In addition, two sub-slab depressurization systems (SSDS), one on-Site and one off-Site, were installed to prevent vapor intrusion. The system reduces the pressure beneath the building slab relative to indoor air by venting potentially impacted soil vapor to outside of the building.

1.4 Remaining Contamination

During the performance monitoring period, concentrations of CVOCs were consistently reported in treatment zone monitoring locations TPMW-3, TPMW-4, and MMW-01; and at monitoring locations MMW-04 and MW-14 located south and southwest of the targeted treatment zone. However, results from post-injection groundwater

sampling indicate that concentrations of PCE and TCE have been significantly reduced within the targeted treatment zone. Concentrations of PCE and TCE at TPMW-3 were reduced by 98 and 92 percent, respectively. Concentrations of PCE and TCE were both reduced by 100 percent (non-detect) at TPMW-4. PCE and TCE were not detected (ND) at other monitoring locations within the treatment zone, which suggests that the substrate injection process did not displace impacted groundwater to areas inside or outside of the target treatment zone.

However, groundwater analytical results from the October/November 2012 sampling event indicate that site contaminants of concern remain at concentrations greater than their relevant Standard, Criteria and Guidance (SCGs) at TPMW-3, TPMW-4, and MMW-01. Concentrations of PCE (12 µg/L), TCE (31 µg/L), *cis*-1,2-Dichloroethylene (DCE) (370 µg/L), *trans*-1,2-dichloroethene (7.9 µg/L), and VC (190 µg/L) remain at TPMW-3 greater than their respective SCGs. Concentrations of VC (2.4 µg/L) remain at TPMW-4 at a concentration greater than its SCG. Concentrations of *cis*-1,2-DCE (51 µg/L) and VC (190 µg/L) remain at MMW-01 at concentrations greater than their respective SCGs. Daughter compounds (*cis*-1,2-DCE and VC) commonly produced during the anaerobic reductive de-chlorination process were consistently detected at TPMW-3, TPMW-4, and MMW-01 during post-injection monitoring. Groundwater data show that these compounds increased in concentration following the injection event and steadily decreased sequentially at each monitoring location.

During the April 2012 performance monitoring event, additional monitoring wells were included to evaluate the potential for substrate influences in areas west of the pilot study treatment zone and within area where historical CVOCs had been detected. Monitoring well MW-16 is located due west of the site and near a sewer line corridor. MW-16 was not originally included in the process and performance monitoring program as this monitoring well is located to the west of the targeted treatment zone outside of the expected area of influence. The reported concentration of PCE (11 micrograms per liter [µg/L]) at MW-16 is similar to that reported during the May 2011 pre-design investigation (18 µg/L). Additionally, no metabolic acids were reported in the additional monitoring points (MW-16, TPMW-1, and TPMW-5), indicating that substrate had not influenced groundwater quality conditions in this portion of the site.

Although, site-related contaminants of concern were identified within subsurface soil during previous investigations, soil samples were collected from depth intervals within the saturated zone and, therefore, are likely not representative of the subsurface soil, but include the contaminant fraction from groundwater. Under the remedial action (RA) performed at the Clinton West site, potential impacts to soil were addressed as part of the groundwater remedial design. Based on the previous soil sampling data and reductions in CVOC concentrations observed in groundwater, residual contamination in subsurface soil is expected to be minimal and treated concurrently with groundwater. Future groundwater monitoring will identify the potential and significance of residual soil contamination. If groundwater monitoring results indicate a potential for a continuing soil source, additional injection events may be warranted under this SMP.

1.5 Regulatory Requirements/Cleanup Goals

The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles. The remedial objectives for this site are:

Public Health Protection

Groundwater

- Prevent people from drinking groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with contaminated groundwater.

- Prevent inhalation of contaminants from groundwater.

Soil

- Prevent ingestion/direct contact with potentially contaminated soil.

Soil Vapor

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the indoor air of buildings at or near a site.

Environmental Protection

Groundwater

- Restore the groundwater aquifer to meet ambient groundwater quality criteria, to the extent feasible.

Institutional and Engineering Control Plan Compliance

2.1 Institutional Controls

A series of ICs is required by the ROD (NYSDEC 2010a) to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the site to commercial and restricted residential (portions of the property zoned for each use by the City of Ithaca) uses only. Adherence to these ICs on the site is required by an Environmental Easement implemented under the Site Management Plan (SMP) prepared in 2019.

These ICs are:

- Compliance with an Environmental Easement and the SMP (2019).
- All ECs must be operated and maintained as specified in the SMP (2019).
- All ECs on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP (2019).
- Groundwater and indoor air monitoring must be performed as defined in the SMP (2019).
- Data and information pertinent to site management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP (2019).
- ICs identified in an Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.
- The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement.

2.2 Engineering Controls

The EC's for the Site include the Site cover, which consists of existing soil cover at the site that prevents exposure to sub-surface contamination, in addition to asphalt pavement, concrete-covered sidewalks and concrete building slabs. These measures prevent incidental contact or ingestion of subsurface soil at the majority of the site. Both an offsite and onsite SSDS prevents exposure to indoor air impacted with VOCs from subsurface vapor intrusion, and monitoring wells are also installed at the site.

Monitoring and Sampling Plan Compliance

The SMP (2019) was prepared to manage remaining on-site contamination associated with the Site and ensures that the remedy remains effective by restricting site use, site development and soil movement on the property. The SMP specifies the following monitoring and sampling activities for the Site:

Summary of February 2019 SMP Site Monitoring and Sampling Plan			
Site Management Activity	**Frequency**	**Location**	**Laboratory Analysis**
Site Inspection	Semiannual	Site properties	Not Applicable
Groundwater Sampling	Semiannual until October 2022 then Annually	• TPMW-3 • TPMW-4 • TPMW-6 • MMW-01 • MMW-02 • MMW-03 • MMW-04 • MW-14 • TPM-01 • TPM-02 • TPM-03	USEPA Method 8260 for VOCs.
Periodic Review Report	Every three years	Not Applicable	Not Applicable

Notes:
USEPA – United States Environmental Protection Agency.
VOCs – Volatile Organic Compounds.

3.1 Site Inspections

TRC Engineers, Inc (TRC) conducted a Site inspection on June 25th, 2020, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-site monitoring wells and overall Site conditions.

TRC conducted a Site inspection on June 23rd, 2022, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-site monitoring wells, overall Site conditions, and to collect groundwater samples from the monitoring well network.

TRC conducted a Site inspection on July 25th, 2023, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-site monitoring wells, overall Site conditions, and to collect groundwater samples from the monitoring well network.

A summary of the Site inspections is presented below:

Summary of Site Activities and Site Monitoring and Sampling June 2020 through July 2023		
Site Management Activity	**Summary of Results**	**Maintenance/Corrective Measure**
Site and Monitoring Well Network Inspection	(June 2020) The Site was documented to be in good condition. Monitoring wells MW-14 and TPMW-4 were covered in road debris due to wintertime plowing, but were able to be located. All monitoring wells were located and no damage to monitoring wells was noted. (June 2022) The Site was documented to be in good condition. Monitoring wells TPMW-3 and MMW-02 were unable able to be located during the inspection. Monitoring wells MMW-01, MMW-03, MMW-04, MW-14, TPM-01, TPM-02, TPM-03, TPMW-4, and TPMW-6 were reported to be in good condition. (July 2023) The Site overall was documented to be in good condition with some exceptions. All monitoring wells were able to be located except TPMW-3, which is assumed to be paved over due to fresh asphalt being in the approximate location of the well, and TPM-01, which was on a private property that TRC were unable to access. MMW-02 had a broken well casing cap and was full of debris when found. TPM-03 had no protective flush-mount casing and was covered with dirt when found. Both TPM-01 and TPMW-3 did have secure J-plugs therefore keeping the well secure and clean. All other wells were located and in good condition.	No routine maintenance or corrective measures needed at this time
Groundwater gauging and sampling	(June 2022) Monitoring wells MMW-01, MMW-03, MMW-04, MW-14, TPM-01, TPM-02, TPM-03, TPMW-4, and TPMW-6 were gauged prior to sample collection utilizing low-flow sampling methods. The groundwater samples were submitted to Pace Analytical for analysis of Target Compound List (TCL) VOCs plus 10 tentatively identified compounds (TICs) by USEPA method 8260. (July 2023) Monitoring wells TPMW-4, TPMW-6, MW-14 MMW-01, MMW-02, MMW-03, MMW-04, TPM-02, and TPM-03 were gauged prior to sampling then sampled utilizing low-flow sampling methods. The groundwater samples were submitted to Pace Analytical for analysis using USEPA method 8260 for TCL VOCs plus 10-TICS.	No routine maintenance or corrective measures needed at this time.

Field activity reports and photographic logs from the recent inspection activities can be found in **Appendix A**. A summary of site inspection results is presented in the following section.

3.2 Groundwater Monitoring Summary

3.2.1 Groundwater Gauging

On June 23rd, 2022, nine of the Site wells were gauged for depth to groundwater to evaluate groundwater flow direction. The groundwater surface contours with an interpretation of groundwater flow direction for the overburden wells is presented in **Figure 3**. The groundwater gauging and elevation measurements can be found in **Table 1**. A summary of the hydrogeological information is presented below:

June 2022 Hydrogeologic Summary			
Number of Gauged Wells	**Hydrogeologic Units**	**Hydrogeologic Strata**	**Monitoring Wells**
9	1	Overburden	11
Overburden Groundwater Elevation Range			
Lowest groundwater elevation: 383.12 feet AMSL (MW-14) Highest groundwater elevation: 384.66 feet AMSL (TPMW-6)			
Inferred Overburden Groundwater Flow Direction			
South			

AMSL – Above mean sea level

On July 25th, 2023, nine of the Site wells were gauged for depth to groundwater to evaluate groundwater flow direction. The groundwater surface contours with an interpretation of groundwater flow direction for the overburden wells is presented in **Figure 6**. The groundwater gauging and elevation measurements can be found in **Table 2**. A summary of the hydrogeological information is presented below:

July 2023 Hydrogeologic Summary			
Number of Gauged Wells	**Hydrogeologic Units**	**Hydrogeologic Strata**	**Monitoring Wells**
9	1	Overburden	11
Overburden Groundwater Elevation Range			
Lowest groundwater elevation: 384.03 feet AMSL (MMW-04) Highest groundwater elevation: 386.10 feet AMSL (TPMW-4)			
Inferred Overburden Groundwater Flow Direction			
Southwest			

AMSL – Above mean sea level

3.2.2 Groundwater Sampling

On June 23rd, 2022, TRC utilized low-flow sampling techniques to collect groundwater samples from the monitoring well network, with the exception of monitoring wells TPMW-03 and MMW-02. The locations of the Site monitoring wells can be found on **Figure 2**. Groundwater sampling logs can be found in **Appendix B**. All groundwater samples, in addition to Quality Assurance/Quality Control (QA/QC) samples collected at the frequencies specified in TRC's July 2020 Generic Quality Assurance Project Plan (QAPP), were submitted to Pace Analytical Laboratories for analyses of TCL VOCs plus 10 TICs by USEPA method 8260.

A summary of the June 2022 groundwater sampling information and pertinent well details for each well is presented below:

Summary of Groundwater Monitoring and Sampling Activities June 2022									
	Monitoring Well Details				June 2022 Groundwater Sampling Event				
Well ID	ft. AMSL	Depth to Well Bottom (ft. TOC)	Well Diameter (in.)	Unit Screened	June 2022 Depth to Well Bottom (ft. TOC)	June 2022 DTW (ft. below TOC)	June 2022 groundwater elevation (ft. AMSL)	Analytes	Notes
TPMW-3	389.25	12.95	1”	Overburden	N/A	N/A	N/A	N/A	Unable to be located during June inspection
TPMW-4	389.10	14.52	1”	Overburden	13.75	5.15	383.95	VOCs	Gauged and sampled in June
TPMW-6	389.42	15.61	1”	Overburden	16.18	4.76	384.66	VOCs	Gauged and sampled in June
MW-14	389.02	14.46	0.75”	Overburden	15.10	5.9	383.12	VOCs	Gauged and sampled in June
MMW-01	388.44	19.35	1.5”	Overburden	18.89	4.77	383.67	VOCs	Gauged and sampled in June
MMW-02	388.62	19.56	1.5”	Overburden	N/A	N/A	N/A	N/A	Unable to be located during June inspection
MMW-03	388.49	19.39	1.5”	Overburden	19.71	4.02	384.47	VOCs	Gauged and sampled in June
MMW-04	388.48	29.45	1.5”	Overburden	30.06	5.19	383.29	VOCs	Gauged and sampled in June
TPM-01	N/A	24.39	1”	Overburden	25.08	4.18	N/A	VOCs	Gauged and sampled in June
TPM-02	N/A	28.41	1”	Overburden	25.35	4.49	N/A	VOCs	Gauged and sampled in June
TPM-03	N/A	21.85	1”	Overburden	21.90	4.5	N/A	VOCs	Gauged and sampled in June

Notes:
AMSL – Above mean sea level
DTW – Depth to water.
bgs – below ground surface.
TOC – Top of casing.
N/A – Not Available

TRC collected groundwater samples from nine out of eleven possible monitoring wells utilizing standard low-flow sampling techniques on July 25th, 2023. The locations of the Site monitoring wells can be found on **Figure 2**. Groundwater sampling logs can be found in **Appendix B**. All groundwater samples, in addition to QA/QC samples collected at the frequencies specified in TRC’s July 2020 Generic QAPP, were submitted to Pace Analytical Laboratories for VOC analysis using USEPA method 8260 for TCL VOCs plus 10 TICs via USEPA method 8260.

A summary of the July 2023 groundwater sampling information and pertinent well details for each well is presented below:

Summary of Groundwater Monitoring and Sampling Activities July 2023									
	Monitoring Well Details				July 2023 Groundwater Sampling Event				
Well ID	ft. AMSL	Depth to Well Bottom (ft. TOC)	Well Diameter (in.)	Unit Screened	July 2023 Depth to Well Bottom (ft. TOC)	July 2023 DTW (ft. below TOC)	July 2023 groundwater elevation (ft. AMSL)	Analytes	Notes
TPMW-3	389.25	12.95	1”	Overburden	N/A	N/A	N/A	N/A	Unable to be located during July inspection
TPMW-4	389.10	14.52	1”	Overburden	13.09	3.00	386.10	VOCs	Gauged and sampled in July
TPMW-6	389.42	15.61	1”	Overburden	15.62	3.59	385.83	VOCs	Gauged and sampled in July
MW-14	389.02	14.46	0.75”	Overburden	14.49	4.15	384.87	VOCs	Gauged and sampled in July
MMW-01	388.44	19.35	1.5”	Overburden	19.19	2.90	385.54	VOCs	Gauged and sampled in July
MMW-02	388.62	19.56	1.5”	Overburden	18.27	3.82	384.80	VOCs	Gauged and sampled in July
MMW-03	388.49	19.39	1.5”	Overburden	19.29	3.61	384.88	VOCs	Gauged and sampled in July
MMW-04	388.48	29.45	1.5”	Overburden	29.55	4.45	384.03	VOCs	Gauged and sampled in July
TPM-01	N/A	24.39	1”	Overburden	N/A	N/A	N/A	N/A	Unable to be located during July inspection
TPM-02	N/A	28.41	1”	Overburden	28.18	7.00	N/A	VOCs	Gauged and sampled in July
TPM-03	N/A	21.85	1”	Overburden	21.36	3.71	N/A	VOCs	Gauged and sampled in July

Notes:
AMSL – Above mean sea level
DTW – Depth to water
bgs – below ground surface
TOC – Top of casing
N/A – Not Available

3.2.3 Groundwater Sample Results

Groundwater analytical data from the June 2022 and July 2023 sampling events can be found in **Table 3** and **Table 4** respectively. The data usability summary reports (DUSRs) can be found in **Appendix C**.

VOC's and CVOC's were detected in samples collected in June 2022 from monitoring wells MMW-01 and TPMW-4 at concentrations above the NYSDEC Class GA Standards. Compounds that were detected in samples above their respective SCGs for each well are illustrated on **Figure 4**. A summary of exceedances recorded in the samples can be found in the table below:

Summary of Laboratory Analytical Results in Groundwater
Exceeding Class GA Standards - June 2022

Constituent	Class GA Standard	Concentration Range (µg/L)	Monitoring Well with Highest Detection	Frequency Exceeding SCG
VOCs				
cis-1, 2 Dichloroethylene	5	1 - 420	MMW-01	2/9
1,2,4-Trimethylbenzene	5	1 - 340	MMW-01	1/9
1,3,5-Trimethylbenzene	5	1 - 110	MMW-01	1/9
Vinyl Chloride	2	2 - 3200	MMW-01	2/9
m/p chloride	5	2 – 360	MMW-01	1/9
o - Xylene	5	1 - 120	MMW-01	1/9

Notes:
µg/L - Micrograms per Liter
SCG - Standard, Criteria and Guidance
ND - Not detected.
VOCs – Volatile Organic Compounds

VOC's and CVOC's were detected in samples collected in July 2023 from monitoring wells MMW-01 and TPMW-4 at concentrations above NYSDEC Recommended Guidance Values for. Detected compounds exceeding their respective SCGs for each well are illustrated on **Figure 7**. Summaries of exceedances recorded in the samples can be found in the table below:

Summary of Laboratory Analytical Results in Groundwater Exceeding Class GA Standards - July 2023				
Constituent	**Class GA Standard**	**Concentration Range (µg/L)**	**Monitoring Well with Highest Detection**	**Frequency Exceeding SCG**
VOCs				
cis-1, 2 Dichloroethylene	5	1 - 2600	MMW-01	2/9
Vinyl Chloride	2	2 - 4400	MMW-01	2/9

Notes:
µg/L - Micrograms per Liter
SCG - Standard, Criteria and Guidance
ND - Not detected.
VOCs – Volatile Organic Compounds

Concentrations of Site COCs from both the June 2022 and July 2023 sampling events were found to be similar to historical concentrations. Total concentrations of Site-related CVOCs in overburden groundwater from the June 2022 and July 2023 sampling events are presented on **Figure 5** and **Figure 8** respectfully.

Cost Summary

The total estimated cost of the Site management activities for June 2020 through October 2023 is approximately $75,029. Site management activities included the following:

- Project management and administration;
- Three Site inspections occurring on June 25th, 2020, June 23rd, 2022, and July 25th, 2023;
- Sampling of 9 monitoring wells and laboratory analysis for TCL VOCs by USEPA Method 8260 occurring on June 23rd, 2022;
- Sampling of 9 monitoring wells and laboratory analysis for TCL VOCs by USEPA Method 8260 occurring on July 25th, 2023;
- Preparation of PRR.

The total includes engineering support, as well as expenses associated with the project. It should be noted that the total does not include costs incurred by NYSDEC in support of the project. A summary of the June 2020 through October 2023 Site management costs is presented below:

Summary of Site Management Costs
June 1, 2020 through October 31, 2023

Cost Item	Amount Expended (June 1, 2020 through October 31, 2023)	Percent of Total Cost
Engineering Support		
TRC	$71,763	96%
Subcontractors		
Pace Laboratories	$1,300	1%
Expenses		
TRC	$1,966	3%
Total Cost	**$75,029**	----

The following provides a review of each cost item:

- Engineering support includes labor costs associated with project management (e.g., monthly invoicing, project scheduling and coordination, etc.), Site inspections, groundwater sampling, and reporting (i.e., Site inspection report, DUSR, and PRR).
- Subcontractors include analytical laboratory costs associated with the groundwater sampling events.

- Expense costs include travel, equipment, and supplies in support of the Site inspection, groundwater sampling, and routine site maintenance activities.
- Reporting costs include data validation, DUSR preparation, electronic data deliverable preparation, and PRR preparation.

Conclusions and Recommendations

5.1 Conclusions

- Based on groundwater elevations measured during the July 2023 Site visit, groundwater flow in the overburden hydrogeologic unit was to the southwest. Based on groundwater elevations measured during the June 2022 Site visit, groundwater flow in overburden hydrogeologic unit was to the south. These observations are consistent with historical observations and indicate a variability in groundwater flow direction.
- Site COCs, which consist of CVOCs, were detected at concentrations exceeding their respective SCGs in 2 of 9 groundwater samples collected from the Site in both June 2022 and July 2023. Overall, detections of CVOCs were distributed near the former source area as well as to the southwest of the former source area. Concentrations increased from June 2022 to July 2023 southwest of the former source area at monitoring well MMW-01; however, the detected concentration is consistent with concentrations detected historically.
- Site and groundwater use are consistent with the restrictions set forth in the ROD and the SMP. Groundwater monitoring activities were completed in June 2022 and July 2023 for the 2020-2023 certification period. Three Site inspections and three Site Inspection Reports were also completed. The ICs operated as intended during this reporting period.
- The remedy continued to be protective of human health and the environment this reporting period.

Certification of Engineering and Institutional Controls

For each institutional or engineering control identified for the Site, I certify that all the following statements are true:

- The institutional and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by DER;
- Nothing has occurred that would impair the ability of such control to protect public health and the environment; and,
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control.

TRC Engineers, Inc.

Prepared By: _____

Jonathan Bone

Project Manager

Reviewed By: _____

Kevin Boger, Program Manager

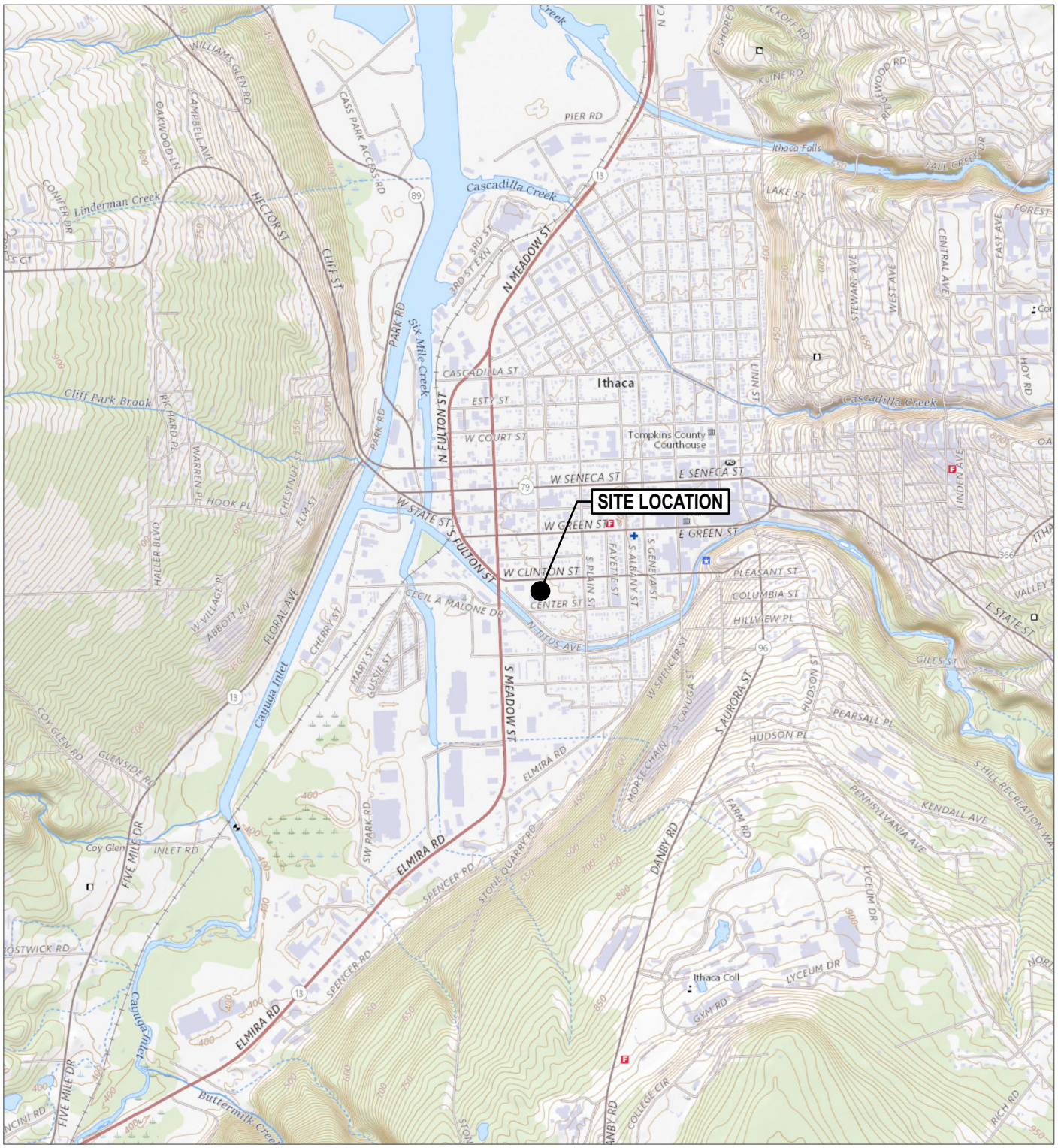
Senior Technical Reviewer

Future Site Activities

Based on the recommendations in Section 1.1, the following site management activities will be completed during the next PRR reporting period (October 2023 to October 2026):

- Site Inspections – Annual (next scheduled: Q3 2024)
- Groundwater – Annual (next scheduled: Q3 2024)
- PRR – Every three years (next scheduled: Q4 2026)

Figures



LEGEND

- SITE LOCATION

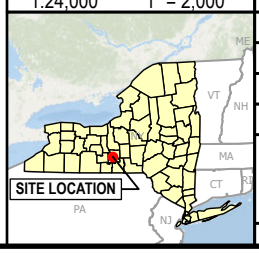
BASE MAP: USGS TOPOGRAPHIC MAP SERVICE
DATA SOURCES: TRC

N

0 1,000 2,000

FEET

1:24,000 1" = 2,000'



PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK

TITLE:

SITE LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE		
APPROVED BY:	J. BONE		**FIGURE 1**
DATE:	DECEMBER 2023		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2022_PRR

LEGEND

- TAX PARCEL BOUNDARY
- MONITORING WELL
- TEMPORARY MONITORING POINT

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC

1:600
1" = 50'

0 25 50 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

TITLE:
SITE LAYOUT MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE		
APPROVED BY:	J. BONE		
DATE:	DECEMBER 2023		

FIGURE 2

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2022_PRR.aprx

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet, Map Rotation: 0
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LEGEND

- TAX PARCEL BOUNDARY
- GROUNDWATER CONTOUR (0.25' INTERVALS)
- GROUNDWATER FLOW DIRECTION
- MONITORING WELL
- TEMPORARY MONITORING POINT

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC

1:475
1" = 40'
0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

TITLE:
GROUNDWATER SURFACE ELEVATIONS AND FLOW MAP - JUNE 2022

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE		FIGURE 3
APPROVED BY:	J. BONE		
DATE:	DECEMBER 2023		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2022_PRR.aprx

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet, Map Rotation: 0
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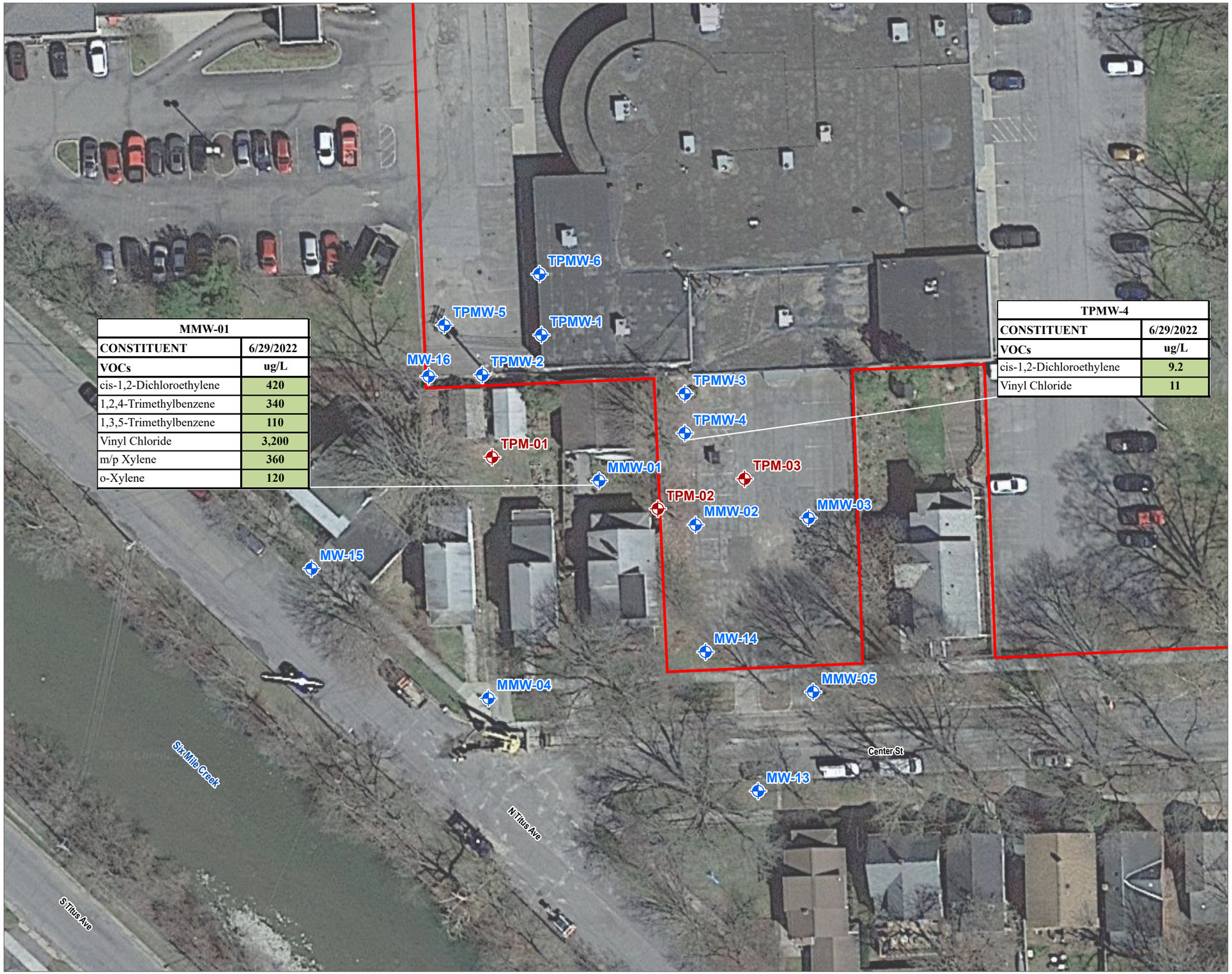


MMW-01	
CONSTITUENT	**6/29/2022**
VOCs	**ug/L**
cis-1,2-Dichloroethylene	**420**
1,2,4-Trimethylbenzene	**340**
1,3,5-Trimethylbenzene	**110**
Vinyl Chloride	**3,200**
m/p Xylene	**360**
o-Xylene	**120**

TPMW-4	
CONSTITUENT	**6/29/2022**
VOCs	**ug/L**
cis-1,2-Dichloroethylene	**9.2**
Vinyl Chloride	**11**

LEGEND

- TAX PARCEL BOUNDARY
- MONITORING WELL
- TEMPORARY MONITORING POINT

CONSTITUENT Class GA Values	
VOCs	**ug/L**
cis-1,2-Dichloroethylene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Vinyl Chloride	2
m/p Xylene	5
o-Xylene	5

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

2. VALUES SHOWN IN **BOLD** AND SHADED TYPE EXCEED THE LISTED GUIDANCE VALUE.

ACRONYMS:

ug/L - MICROGRAMS PER LITER
* - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER.

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC

1:475
1" = 40'
0 20 40 FEET

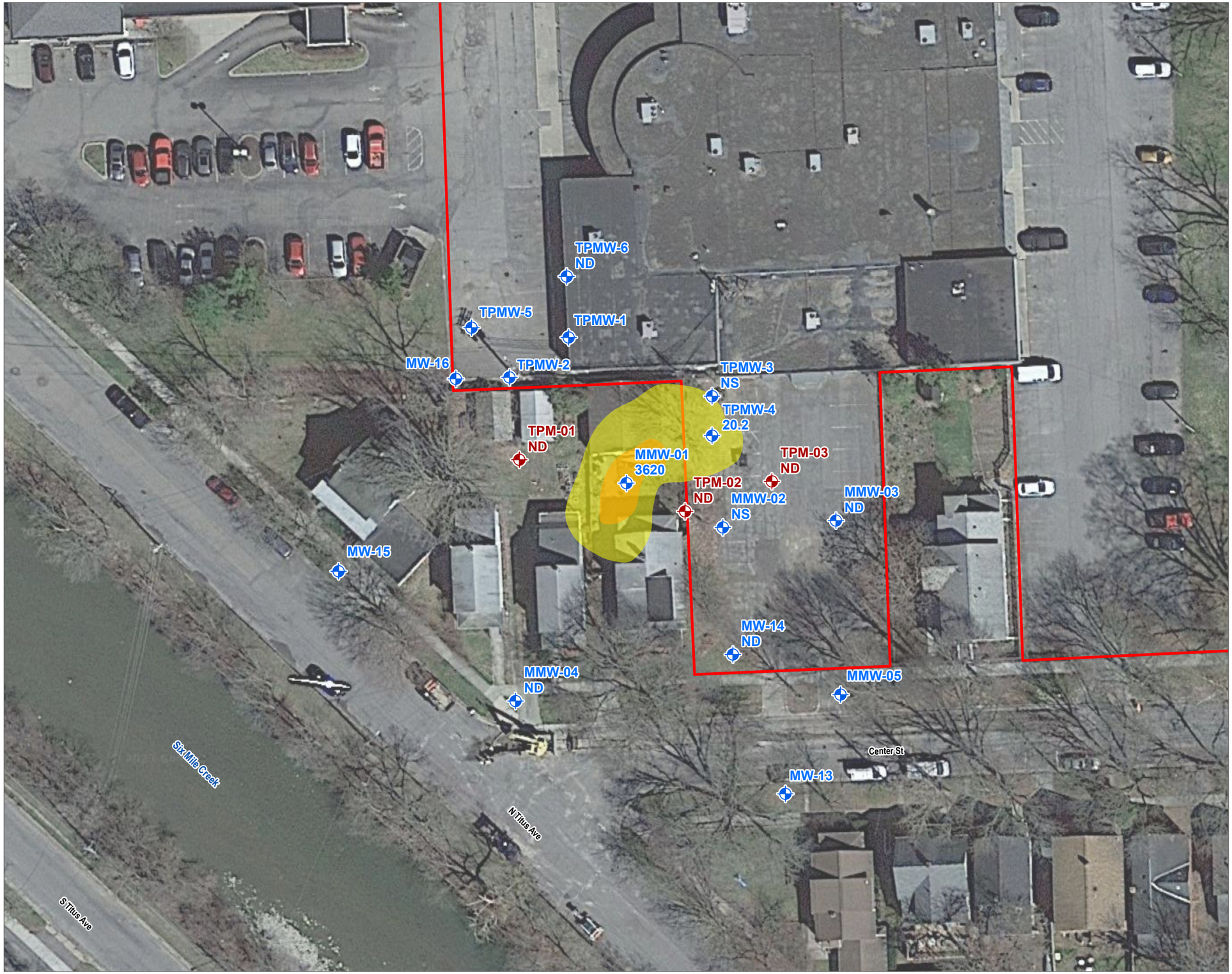
PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

TITLE: **SUMMARY OF DETECTED COMPOUNDS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS/GUIDANCE - JUNE 2022**

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE		**FIGURE 4**
APPROVED BY:	J. BONE		
DATE:	DECEMBER 2023		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2022_PRR.aprx



LEGEND

- TAX PARCEL BOUNDARY
- MONITORING WELL
- TEMPORARY MONITORING POINT

TOTAL CVOC

- 10 +
- 3000 +

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

ACRONYMS:
ND - NO CVOCS WERE DETECTED AT THIS LOCATION
NS - SAMPLING WAS NOT COMPLETED AT THIS LOCATION

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC

1:475
1" = 40'
0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

TITLE:
TOTAL CVOCs IN GROUNDWATER JUNE 2022

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE		
APPROVED BY:	J. BONE		FIGURE 5
DATE:	DECEMBER 2023		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2023_PRR.aprx

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet, Map Rotation: 0
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LEGEND

- TAX PARCEL BOUNDARY
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER CONTOUR (0.25' INTERVALS)
- MONITORING WELL
- TEMPORARY MONITORING POINT

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC

N

1:475
1" = 40'
0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

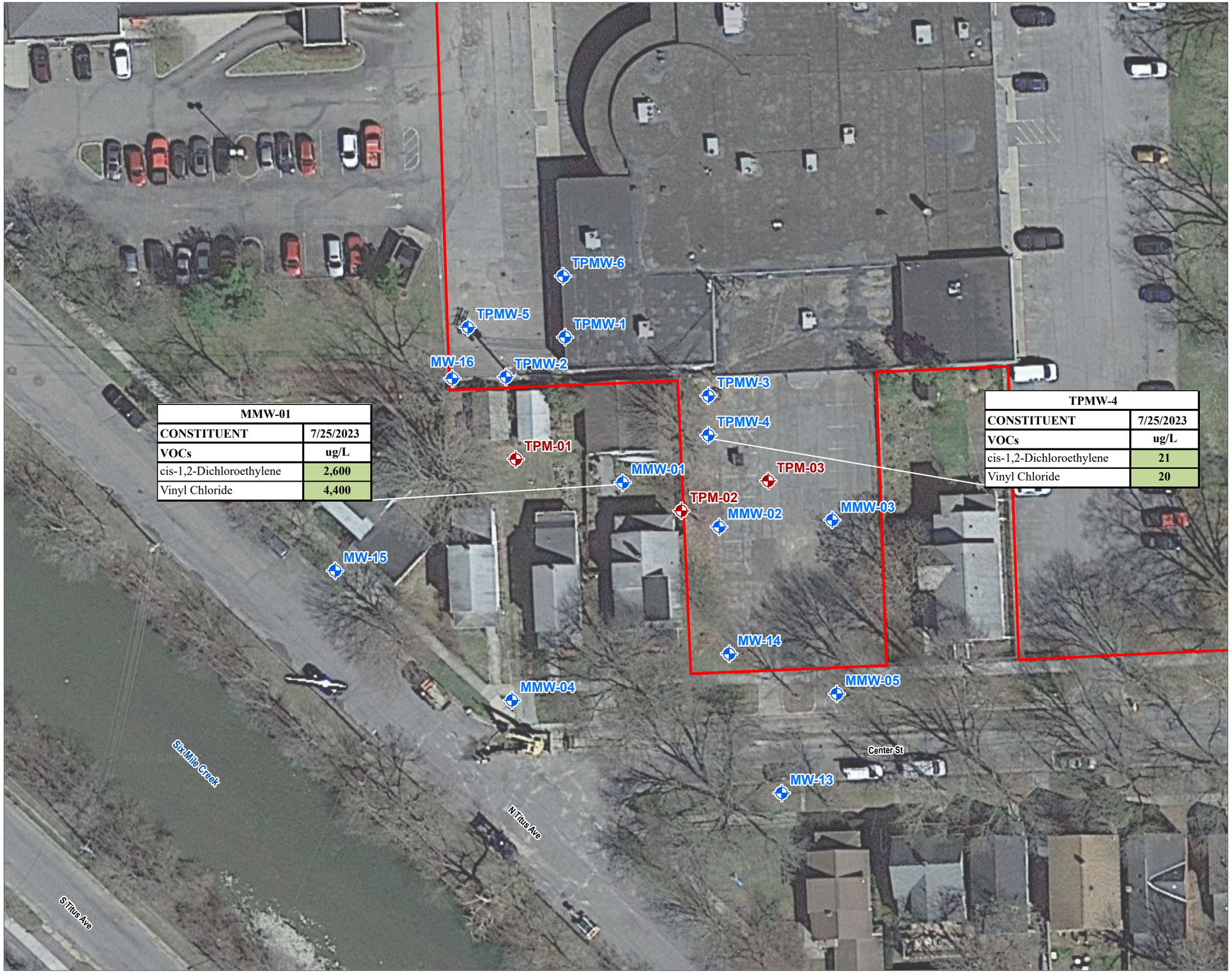
TITLE:
GROUNDWATER SURFACE ELEVATIONS AND FLOW MAP - JULY 2023

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE	FIGURE 6	
APPROVED BY:	J. BONE		
DATE:	DECEMBER 2023		

TRC

3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2023_PRR.aprx



MMW-01	
CONSTITUENT	7/25/2023
VOCs	ug/L
cis-1,2-Dichloroethylene	**2,600**
Vinyl Chloride	**4,400**

TPMW-4	
CONSTITUENT	7/25/2023
VOCs	ug/L
cis-1,2-Dichloroethylene	**21**
Vinyl Chloride	**20**

LEGEND

- TAX PARCEL BOUNDARY
- MONITORING WELL
- TEMPORARY MONITORING POINT

CONSTITUENT Class GA Values	
VOCs	ug/L
cis-1,2-Dichloroethylene	5
Vinyl Chloride	2

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. VALUES SHOWN IN BOLD AND SHADED TYPE EXCEED THE LISTED GUIDANCE VALUE.

ACRONYMS:
ug/L - MICROGRAMS PER LITER
* - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER.

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC

1:475
1" = 40'
0 20 40 FEET

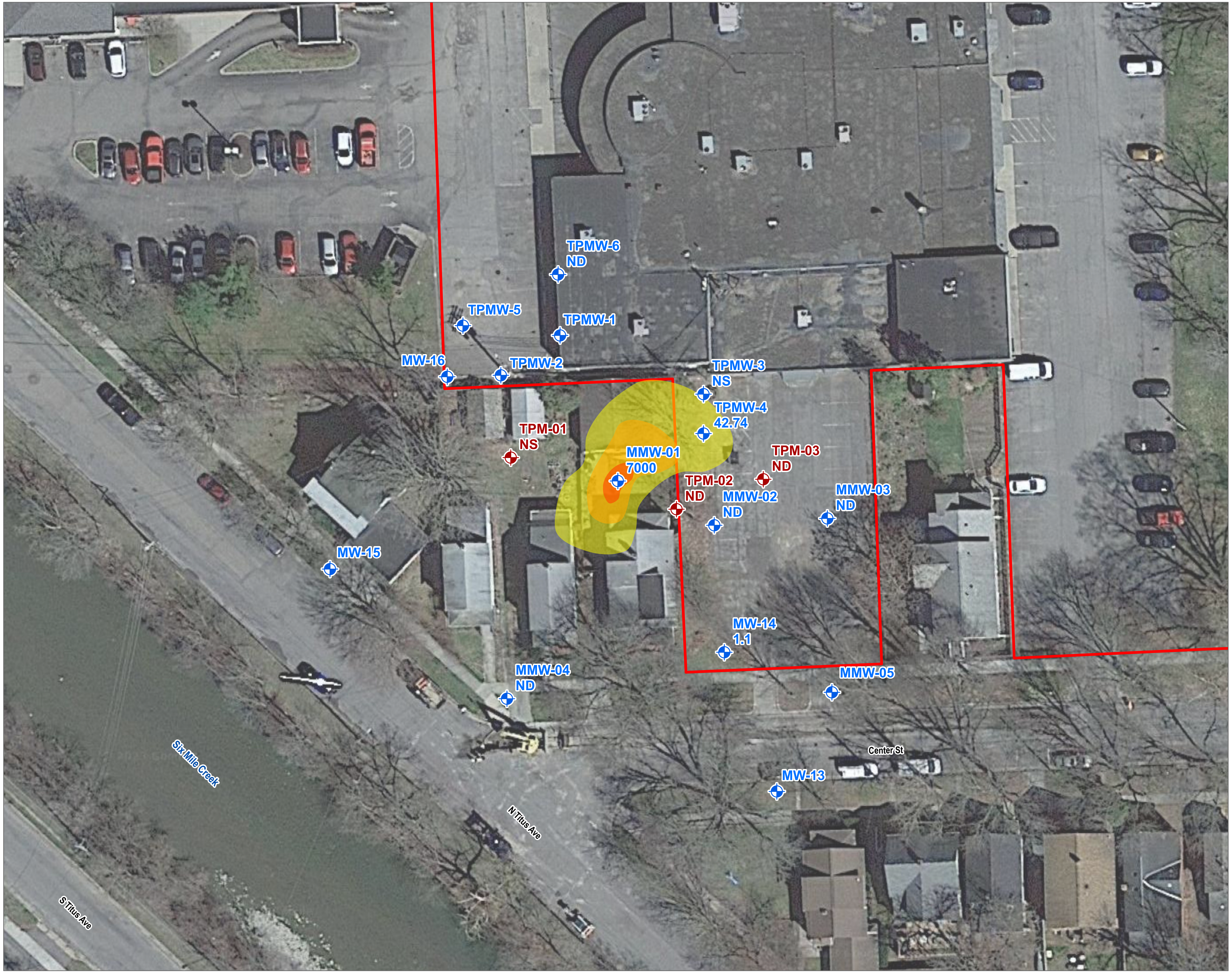
PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

TITLE: **SUMMARY OF DETECTED COMPOUNDS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS - JULY 2023**

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE		
APPROVED BY:	J. BONE		**FIGURE 7**
DATE:	DECEMBER 2023		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2023_PRR.aprx



LEGEND

TAX PARCEL BOUNDARY

MONITORING WELL

TEMPORARY MONITORING POINT

TOTAL CVOC

10 +

3000 +

6000 +

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

ACRONYMS:

ND - NO CVOCS WERE DETECTED AT THIS LOCATION

NS - SAMPLING WAS NOT COMPLETED AT THIS LOCATION

BASE MAP: GOOGLE EARTH IMAGERY

DATA SOURCES: TRC

N

1:475

1" = 40'

0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CLINTON WEST PLAZA - SITE NO. 755015
609-625 WEST CLINTON STREET
ITHACA, NEW YORK 14850

TITLE:
TOTAL CVOCs IN GROUNDWATER
JULY 2023

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 13
CHECKED BY:	J. BONE	FIGURE 8	
APPROVED BY:	J. BONE		
DATE:	DECEMBER 2023		

TRC

3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: 2023_PRR.aprx

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet; Map Rotation: 0
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Figure 9
Monitoring Well Concentration Trends over Time: MMW-01
Clinton West Plaza Site (NYSDEC Site No. 755015)

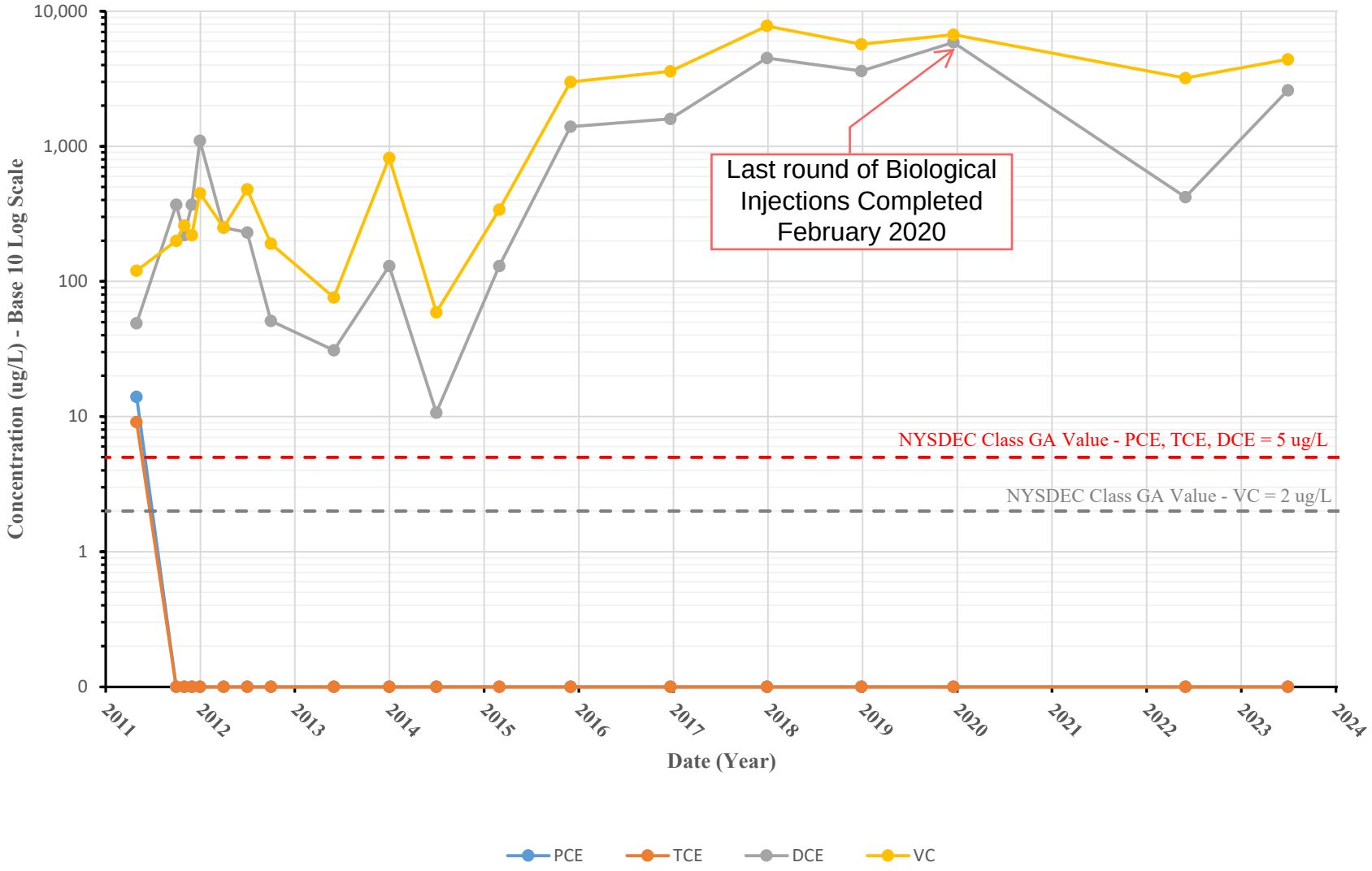


Figure 10
Monitoring Well Concentration Trends over Time: MMW-04
Clinton West Plaza Site (NYSDEC Site No. 755015)

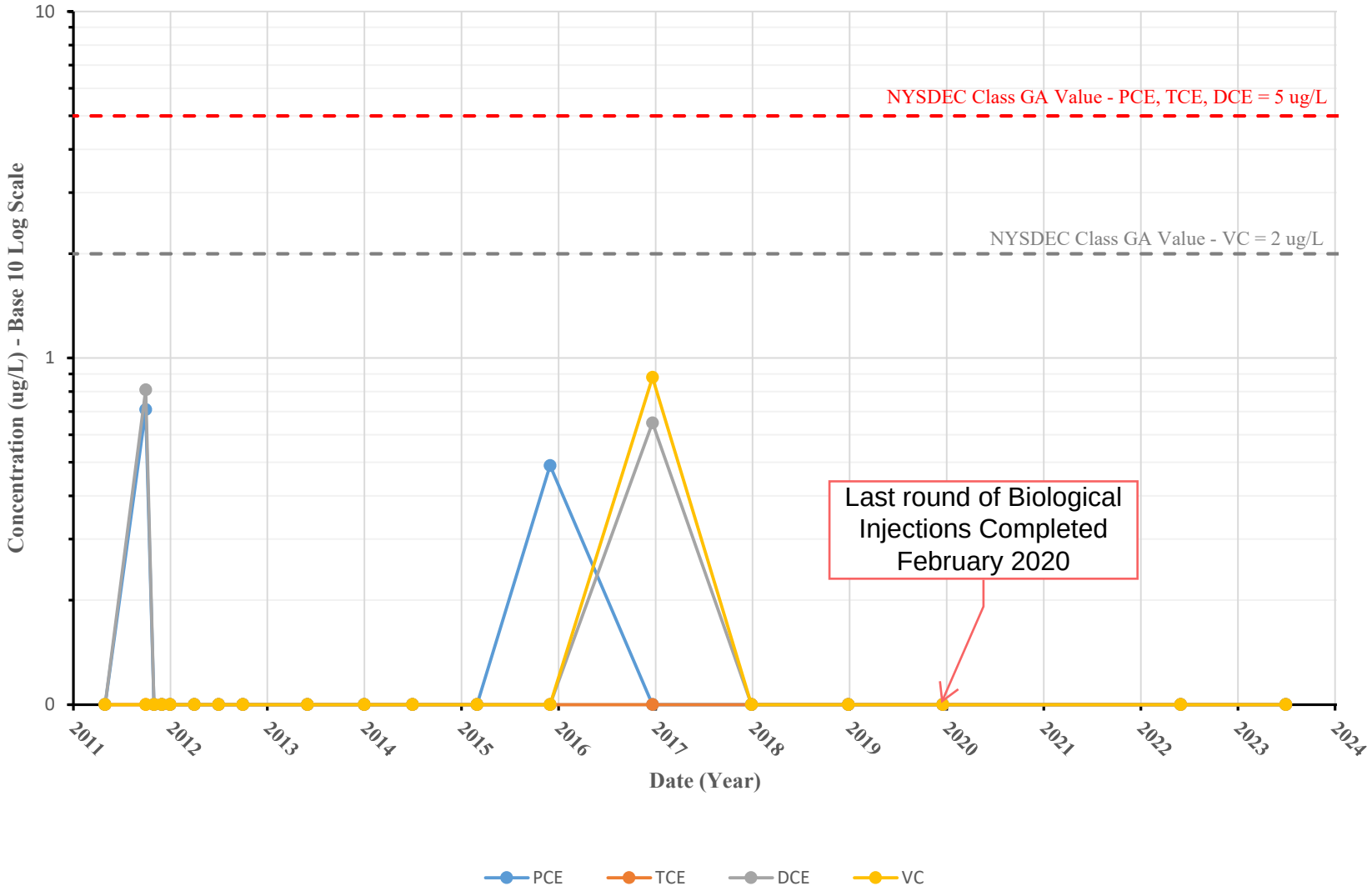


Figure 11
Monitoring Well Concentration Trends over Time: MW-14
Clinton West Plaza Site (NYSDEC Site No. 755015)

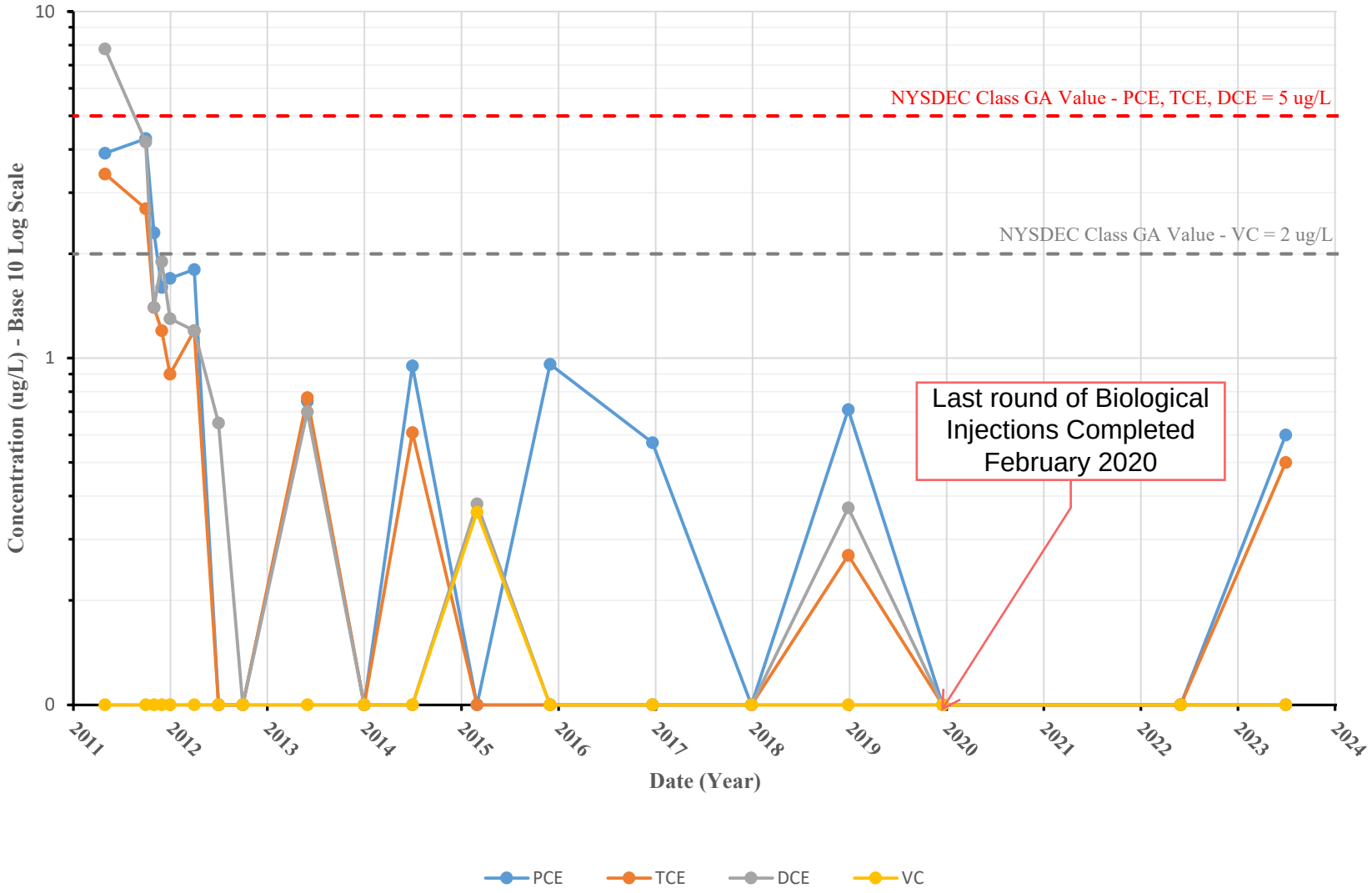


Figure 12
Monitoring Well Concentration Trends over Time: TPMW-3
Clinton West Plaza Site (NYSDEC Site No. 755015)

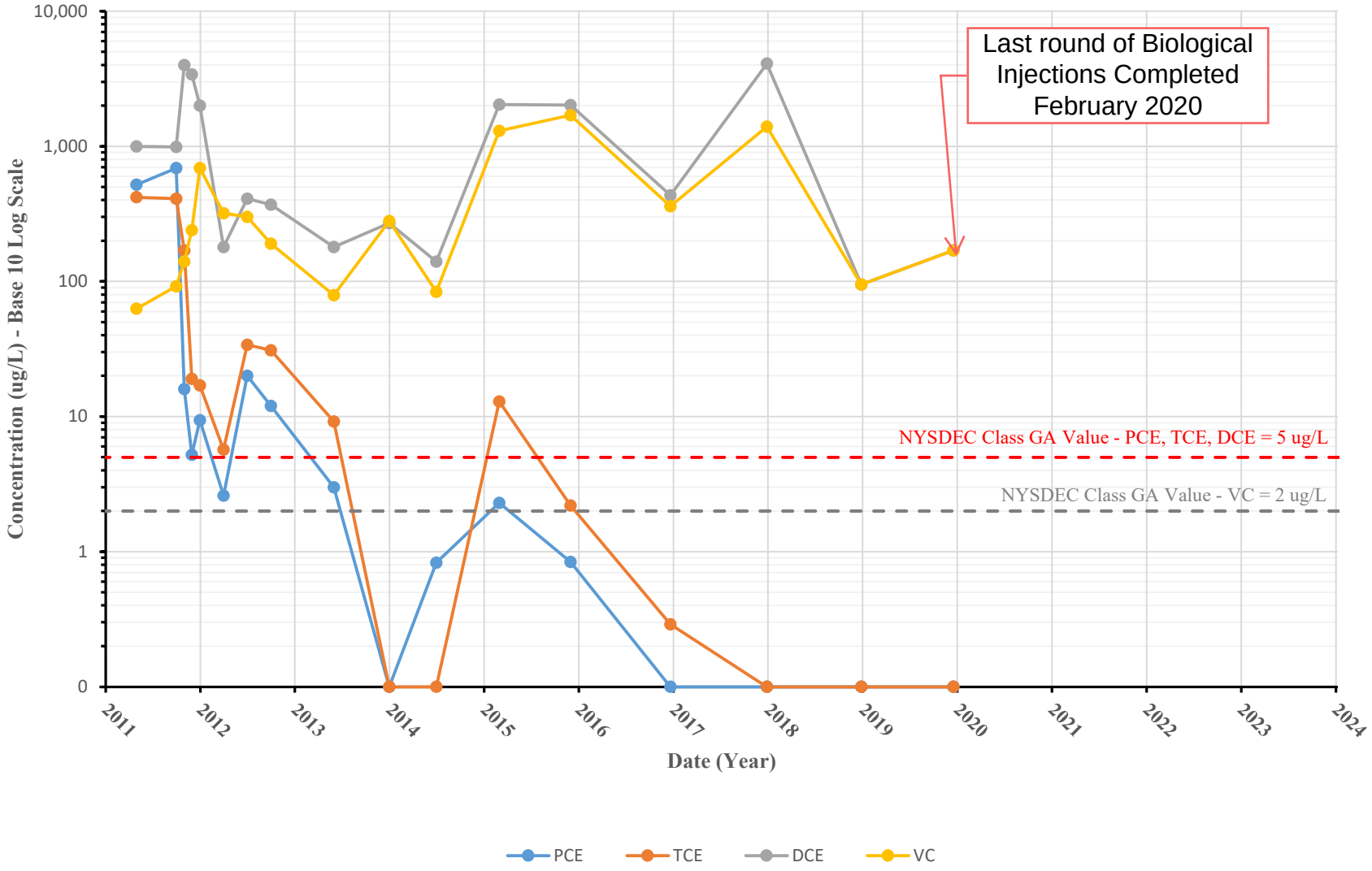
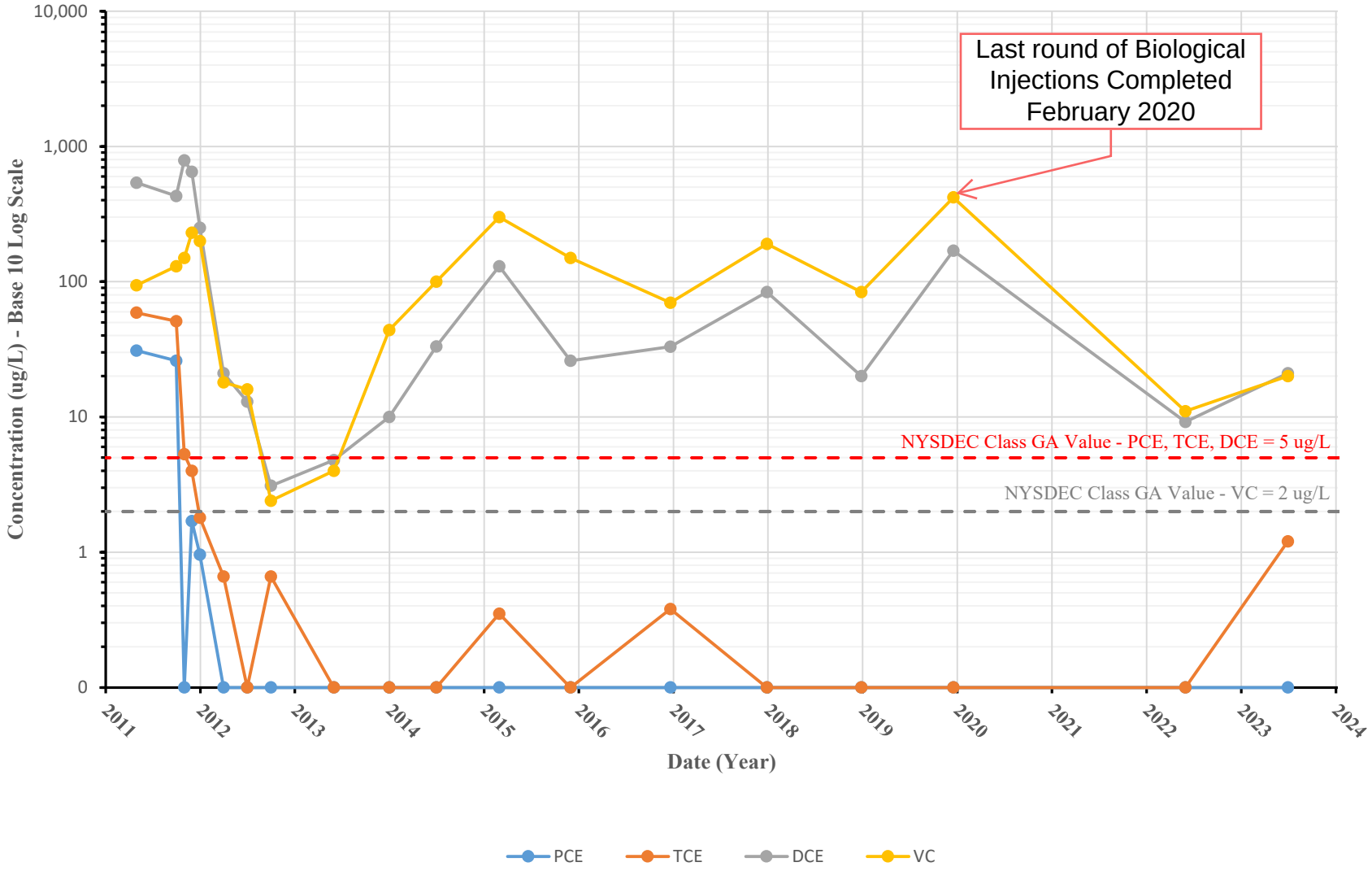


Figure 13
Monitoring Well Concentration Trends over Time: TPMW-4
Clinton West Plaza Site (NYSDEC Site No. 755015)



Tables

Table 1
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Depth to Water Measurements and Groundwater Elevations - June 2022

Monitoring Well Location ID	Stick-up or Flush-fount	Installed Well Depth (feet bgs)	Top of Riser Elevation (Feet AMSL)	Water Level Measurement Date	Depth to Water (feet btoc)	Depth to Bottom (feet btoc)	Groundwater Surface Elevation (feet AMSL)
Upgradient Onsite Monitoring Wells							
MMW-03	Flush-mount	19.39	388.49	6/24/2022	4.02	19.71	384.47
TPMW-6	Flush-mount	15.61	389.42	6/24/2022	4.76	16.18	384.66
Downgradient Onsite Monitoring Wells							
TPMW-3	Flush-mount	12.95	389.25	6/23/2022	NA	NA	NA
TPMW-4	Flush-mount	14.52	389.10	6/24/2022	5.15	13.75	383.95
MMW-01	Flush-mount	19.35	388.44	6/24/2022	4.77	18.89	383.67
MMW-02	Flush-mount	19.56	388.62	6/23/2022	NA	NA	NA
MMW-04	Flush-mount	29.45	388.48	6/24/2022	5.19	30.06	383.29
MW-14	Flush-mount	14.46	389.02	6/23/2022	5.90	15.10	383.12
TPM-01	Flush-mount	24.39	NA	6/23/2022	4.18	25.08	NA
TPM-02	Stick-up	28.41	NA	6/23/2022	4.49	25.35	NA
TPM-03	Flush-mount	21.85	NA	6/23/2022	4.50	21.90	NA

Notes
AMSL - Above mean sea level
NA - Not Available
bgs - Below ground surface
btoc - Below top of casing

Table 2
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Depth to Water Measurements and Groundwater Elevations - July 2023

Monitoring Well Location ID	Stick-up or Flush-fount	Installed Well Depth (feet bgs)	Top of Riser Elevation (Feet AMSL)	Water Level Measurement Date	Depth to Water (feet btoc)	Depth to Bottom (feet btoc)	Groundwater Surface Elevation (feet AMSL)
Upgradient Onsite Monitoring Wells							
MMW-03	Flush-mount	19.39	388.49	7/25/2023	3.61	19.29	384.88
TPMW-6	Flush-mount	15.61	389.42	7/25/2023	3.59	15.62	385.83
Downgradient Onsite Monitoring Wells							
TPMW-3	Flush-mount	12.95	389.25	7/25/2023	N/A	N/A	N/A
TPMW-4	Flush-mount	14.52	389.1	7/25/2023	3.00	13.09	386.10
MMW-01	Flush-mount	19.35	388.44	7/25/2023	2.90	19.19	385.54
MMW-02	Flush-mount	19.56	388.62	7/25/2023	3.82	18.27	384.80
MMW-04	Flush-mount	29.45	388.48	7/25/2023	4.45	29.55	384.03
MW-14	Flush-mount	14.46	389.02	7/25/2023	4.15	14.49	384.87
TPM-01	Flush-mount	24.39	NA	7/25/2023	N/A	N/A	N/A
TPM-02	Stick-up	28.41	NA	7/25/2023	7.00	28.18	N/A
TPM-03	Flush-mount	21.85	NA	7/25/2023	3.71	21.36	N/A

Notes
AMSL - Above mean sea level
NA - Not Available
bgs - Below ground surface
btoc - Below top of casing

Table 3
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Results of Groundwater Analysis - June 2022

Sample Location:			MMW-01				MMW-03		MMW-04		MW-14		TPM-01		TPM-02		TPM-03		TPMW-4		TPMW-6	
Sample Name:			CWP-MMW-01		CWP-DUP-1		CWP-MMW-03		CWP-MMW-04		CWP-MW-14		CWP-TPM-01		CWP-TPM-02		CWP-TPM-03		CWP-TPMW-4		CWP-TPMW-6	
Lab Sample ID:			22G0052-07		22G0052-08		22G0052-03		22G0052-09		22G0052-01		22G0052-02		22G0052-05		22G0052-04		22G0052-10		22G0052-06	
Sample Date:			6/24/2022		6/24/2022		6/23/2022		6/24/2022		6/29/2022		6/23/2022		6/23/2022		6/23/2022		6/24/2022		6/24/2022	
Analyte	Unit	Class GA Values*			Field Dup																	
VOCs																						
Acetone	ug/L	50	5,000	U	2,500	U	50	U	100	U	50	U	100	U	50	U	100	U	50	U	50	U
Acrylonitrile	ug/L	NC	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
tert-Amylmethyl Ether (TAME)	ug/L	NC	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
Benzene	ug/L	1	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Bromobenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Bromochloromethane	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Bromodichloromethane	ug/L	50	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
Bromoform	ug/L	50	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Bromomethane	ug/L	5	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
2-Butanone (MEK)	ug/L	50	2,000	U	1,000	U	**23**		40	U	20	U	40	U	**22**		40	U	20	U	20	U
tert-Butyl Alcohol	ug/L	NC	2,000	U	1,000	U	20	U	40	U	20	U	40	U	20	U	40	U	20	U	20	U
n-Butylbenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
sec-Butylbenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
tert-Butylbenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
tert-Butylethyl Ether (TBEE)	ug/L	NC	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
Carbon Disulfide	ug/L	60	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
Carbon Tetrachloride	ug/L	5	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
Chlorobenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Chloroethane	ug/L	5	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
Chloroform	ug/L	7	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
Chloromethane	ug/L	5	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
2-Chlorotoluene	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
4-Chlorotoluene	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Chlorodibromomethane	ug/L	50	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L	0.04	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
1,2-Dibromoethane	ug/L	0.0006	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
Dibromomethane	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,2-Dichlorobenzene	ug/L	3	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,3-Dichlorobenzene	ug/L	3	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,4-Dichlorobenzene	ug/L	3	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
trans-1,4-Dichloro-2-Butene	ug/L	NC	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
Dichlorodifluoromethane (Freon 12)	ug/L	5	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
1,1-Dichloroethane	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,2-Dichloroethane	ug/L	0.6	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,1-Dichloroethylene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
cis-1,2-Dichloroethylene	ug/L	5	**420**		**420**		1	U	2	U	1	U	2	U	1	U	2	U	**9.2**		1	U

Table 3
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Results of Groundwater Analysis - June 2022

Sample Location:			MMW-01				MMW-03		MMW-04		MW-14		TPM-01		TPM-02		TPM-03		TPMW-4		TPMW-6	
Sample Name:			CWP-MMW-01		CWP-DUP-1		CWP-MMW-03		CWP-MMW-04		CWP-MW-14		CWP-TPM-01		CWP-TPM-02		CWP-TPM-03		CWP-TPMW-4		CWP-TPMW-6	
Lab Sample ID:			22G0052-07		22G0052-08		22G0052-03		22G0052-09		22G0052-01		22G0052-02		22G0052-05		22G0052-04		22G0052-10		22G0052-06	
Sample Date:			6/24/2022		6/24/2022		6/23/2022		6/24/2022		6/29/2022		6/23/2022		6/23/2022		6/23/2022		6/24/2022		6/24/2022	
Analyte	Unit	Class GA Values*			Field Dup																	
trans-1,2-Dichloroethylene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,2-Dichloropropane	ug/L	1	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,3-Dichloropropane	ug/L	NC	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
2,2-Dichloropropane	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,1-Dichloropropene	ug/L	NC	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
cis-1,3-Dichloropropene	ug/L	0.4(a)	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	ug/L	0.4(a)	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
Diethyl Ether	ug/L	NC	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
Diisopropyl Ether (DIPE)	ug/L	NC	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
1,4-Dioxane	ug/L	NC	5,000	U	2,500	U	50	U	100	U	50	U	100	U	50	U	100	U	50	U	50	U
Ethyl Benzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Hexachlorobutadiene	ug/L	0.5	60	U	30	U	0.6	U	1.2	U	0.6	U	1.2	U	0.6	U	1.2	U	0.6	U	0.6	U
2-Hexanone (MBK)	ug/L	50	1,000	U	500	U	10	U	20	U	10	U	20	U	10	U	20	U	10	U	10	U
Isopropylbenzene (Cumene)	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
p-Isopropyltoluene (p-Cymene)	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Methyl Acetate	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Methyl tert-Butyl Ether (MTBE)	ug/L	10	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Methyl Cyclohexane	ug/L	NC	**130**		50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Methylene Chloride	ug/L	5	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/L	NC	1,000	U	500	U	10	U	20	U	10	U	20	U	10	U	20	U	10	U	10	U
Naphthalene	ug/L	10	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
n-Propylbenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Styrene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,1,1,2-Tetrachloroethane	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,1,2,2-Tetrachloroethane	ug/L	5	50	U	25	U	0.5	U	1	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
Tetrachloroethylene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Tetrahydrofuran	ug/L	NC	1,000	U	500	U	10	U	20	U	10	U	20	U	10	U	20	U	10	U	10	U
Toluene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,2,3-Trichlorobenzene	ug/L	5	500	U	250	U	5	U	10	U	5	U	10	U	5	U	10	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,3,5-Trichlorobenzene	ug/L	NC	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,1,1-Trichloroethane	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,1,2-Trichloroethane	ug/L	1	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Trichloroethylene	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Trichlorofluoromethane (Freon 11)	ug/L	5	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
1,2,3-Trichloropropane	ug/L	0.04	200	U	100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	5	100	U	50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U

Table 3
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Results of Groundwater Analysis - June 2022

Sample Location:			MMW-01				MMW-03		MMW-04		MW-14		TPM-01		TPM-02		TPM-03		TPMW-4		TPMW-6	
Sample Name:			CWP-MMW-01		CWP-DUP-1		CWP-MMW-03		CWP-MMW-04		CWP-MW-14		CWP-TPM-01		CWP-TPM-02		CWP-TPM-03		CWP-TPMW-4		CWP-TPMW-6	
Lab Sample ID:			22G0052-07		22G0052-08		22G0052-03		22G0052-09		22G0052-01		22G0052-02		22G0052-05		22G0052-04		22G0052-10		22G0052-06	
Sample Date:			6/24/2022		6/24/2022		6/23/2022		6/24/2022		6/29/2022		6/23/2022		6/23/2022		6/23/2022		6/24/2022		6/24/2022	
Analyte	Unit	Class GA Values*			Field Dup																	
1,2,4-Trimethylbenzene	ug/L	5	**340**		50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
1,3,5-Trimethylbenzene	ug/L	5	**110**		50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U
Vinyl Chloride	ug/L	2	**3,200**		**3,300**		2	U	4	U	2	U	4	U	2	U	4	U	**11**		2	U
m/p Xylene	ug/L	5	**360**		100	U	2	U	4	U	2	U	4	U	2	U	4	U	2	U	2	U
o-Xylene	ug/L	5	**120**		50	U	1	U	2	U	1	U	2	U	1	U	2	U	1	U	1	U

Notes:

ug/L - micrograms per liter.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed Guidance Value.

VOCs - Volatile Organic Compounds.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

(a) - criteria applicable to the sum of the cis and trans isomers.

Table 4
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Results of Groundwater Analysis - July 2023

		Sample Location:	MMW-01		MMW-02		MMW-03		MMW-04		MW-14		TPM-02		TPM-03		TPMW-04				TPMW-06	
		Sample Name:	MMW-01		MMW-02		MMW-03		MMW-04		MW-14		TPM-02		TPM-03		TPMW-04		DUP-01		TPMW-06	
		Lab Sample ID:	23G3639-01		23G3639-07		23G3639-05		23G3639-09		23G3639-08		23G3639-06		23G3639-04		23G3639-03		23G3639-02		23G3639-10	
		Sample Date:	7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023	
Analyte	Unit	Class GA Values*																	Field Dup			
VOCs																						
Acetone	ug/L	50	2,000	U	50	U	50	U	50	U	50	U	50	U	50	U	**2.4**	**J**	**2.1**	**J**	50	U
Benzene	ug/L	1	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromochloromethane	ug/L	5	40	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Bromodichloromethane	ug/L	50	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	ug/L	50	40	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromomethane	ug/L	5	80	UJ	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ
2-Butanone (MEK)	ug/L	50	800	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Carbon Disulfide	ug/L	60	200	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride	ug/L	5	200	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	ug/L	5	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	ug/L	7	80	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chloromethane	ug/L	5	80	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Cyclohexane	ug/L	NC	80	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chlorodibromomethane	ug/L	50	200	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-Chloropropane (DBCP	ug/L	0.04	200	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
1,2-Dibromoethane	ug/L	0.0006	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	ug/L	3	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	ug/L	3	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	ug/L	3	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane (Freon 12)	ug/L	5	80	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloroethane	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	ug/L	0.6	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethylene	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethylene	ug/L	5	**2,600**		1	U	1	U	1	U	1	U	1	U	1	U	**19**		**21**		1	U
trans-1,2-Dichloroethylene	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	**0.54**	**J**	**0.37**	**J**	1	U
1,2-Dichloropropane	ug/L	1	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	ug/L	0.4(a)	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	ug/L	0.4(a)	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dioxane	ug/L	NC	2,000	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ
Ethyl Benzene	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Hexanone (MBK)	ug/L	50	400	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene (Cumene)	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	ug/L	NC	40	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl tert-Butyl Ether (MTBE)	ug/L	10	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Cyclohexane	ug/L	NC	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	ug/L	5	200	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/L	NC	400	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U

Table 4
New York State Department Of Environmental Conservation
Clinton West Plaza - Site No. 755015
City of Ithaca, New York
Summary of Results of Groundwater Analysis - July 2023

		Sample Location:	**MMW-01**		**MMW-02**		**MMW-03**		**MMW-04**		**MW-14**		**TPM-02**		**TPM-03**		**TPMW-04**				**TPMW-06**	
		Sample Name:	MMW-01		MMW-02		MMW-03		MMW-04		MW-14		TPM-02		TPM-03		TPMW-04		DUP-01		TPMW-06	
		Lab Sample ID:	23G3639-01		23G3639-07		23G3639-05		23G3639-09		23G3639-08		23G3639-06		23G3639-04		23G3639-03		23G3639-02		23G3639-10	
		Sample Date:	7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023		7/25/2023	
Analyte	Unit	Class GA Values*																	Field Dup			
Styrene	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	ug/L	5	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethylene	ug/L	5	40	U	1	U	1	U	1	U	**0.60**	**J**	1	U	1	U	1	U	1	U	1	U
Toluene	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	ug/L	5	200	UJ	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/L	5	40	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,1-Trichloroethane	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	ug/L	1	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethylene	ug/L	5	40	U	1	U	1	U	1	U	**0.50**	**J**	1	U	1	U	**0.92**	**J**	**1.2**		1	U
Trichlorofluoromethane (Freon 11)	ug/L	5	80	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	ug/L	2	**4,400**		2	U	2	U	2	U	2	U	2	U	2	U	**19**		**20**		2	U
Xylenes (total)	ug/L	5	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U

Notes:

ug/L - micrograms per liter.

J -Estimated value.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed Guidance Value.

VOCs - Volatile Organic Compounds.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

(a) - criteria applicable to the sum of the cis and trans isomers.

Appendix A

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYSDEC Contract No. D011107

Superintendent:

NYSDEC PM: Brianna Scharf

Consultant PM: Jonathan Bone

Consultant Site Inspectors:

Kevin Etter & Caitlin Serowik

Site Location: Ithaca, New York

Weather Conditions

General Description	Clear	AM	Clear	PM
Temperature	65°F	AM	74°F	PM
Wind	3 mph SSE	AM	4 mph SSE	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No **X**	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA **X**
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA **X**

Health & Safety Comments

Site-specific HASP was followed accordingly.

Summary of Work Performed	Arrived at site:	**09:00**	Departed Site:	**17:00**

TRC Engineers, Inc. (TRC) conducted a biennial site inspection, groundwater gauging, and sampling event on Thursday, June 23, 2022, through Friday June 24, 2022, at the Clinton West Plaza (Site) located at 609-625 West Clinton Street, Ithaca, New York. The team performed the site inspection and gauging event prior to groundwater sampling. The inspection was completed in order to document the condition of the on and off-site monitoring wells and overall site conditions. The Site was documented to be in good condition; however monitoring wells TPMW-03 and MMW-02 were unable able to be located during the inspection.

Monitoring wells MMW-01, MMW-03, MMW-04, MW-14, TPM-01, TPM-02, TPM-03, TPMW-04, and TPMW-06 were reported to be in good condition and were gauged prior to sample collection utilizing low-low sampling methods. The groundwater samples were submitted to Pace Analytical for analysis using EPA method 8260 for TCL VOCs plus 10 TICs via EPA method 8260.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA **X**
Were there any vehicles which were not tarped?	* Yes	No	NA **X**
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA **X**

Personnel and Equipment

Individual	Company	Trade	Total Hours
Kevin Etter	TRC Engineers, Inc.	Technical Intern	8
Caitlin Serowik	TRC Engineers, Inc.	Geologist	8

Equipment Description	Contractor/Vendor	Quantity	Used
PID	Pine Environmental	1	
Oil/Water Interface Probe	Pine Environmental	1	
YSI	Pine Environmental	1	
Turbidity Meter	Pine Environmental	1	
Peristaltic Pump	Pine Environmental	1	

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
n/a						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments: n/a

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
n/a		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
n/a	

Project Schedule Comments

n/a

Issues Pending

n/a
Interaction with Public, Property Owners, Media, etc.
Owners of property which wells MMW-01 and TPM-01 were located on were notified of sampling and inspections prior to any action by TRC.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Photo 1: View looking south at an overview of the Site parking lot.

Photo 2: View looking north at an overview of the Site parking lot.

Photo 3: View looking northeast at an overview of the Site parking lot.

Photo 4: View of monitoring well MMW-03 during low flow-sampling.

	
Photo 5: View of monitoring well MW-14 prior to groundwater sampling.	**Photo 6:** View of monitoring well MMW-01 following groundwater sampling.
Comments	
Site Inspector(s): Caitlin Serowik	**Date: 6/23/22**

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☒
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐

Comments:

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☐	N/A☒
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the Montauk Highway outfall?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is the site supplied with green power and is it properly installed and/or maintained?	Yes ☐	No ☐	N/A☒
Is the site employing 2007 or newer or retrofitted diesel trucks?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☒	No ☐	N/A☐
Is equipment properly maintained and operated by trained personnel?	Yes ☒	No ☐	N/A☐
Is work being sequenced to avoid double handling?	Yes ☒	No ☐	N/A☐
Is there an onsite recycling program for CONTRACTOR generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points?	AM ☐	PM ☐	N/A☒
Are products and materials appropriately certified (e.g., LEED, Energy Star,	Yes ☐	No ☐	N/A☒

Sustainable Forestry Initiative®, etc.)?			
Are resiliency features included in the design or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Are appropriate metrics documented for inclusion on Form A, Summary of Green Remediation Metrics, by the CONTRACTOR?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments:			

DAILY INSPECTION REPORT

Report No.20200625 **Site Name:** Clinton West Plaza **NYSDEC Site No.** 755015 **Date:** 6/25/2020

NYSDEC
Division of Environmental Remediation

Site Location: Ithaca, New York

NYSDEC Contract No. D011107

Superintendent:

NYSDEC PM:

Consultant PM: Nathan Kranes

Consultant Site Inspectors:

Steve Johansson & Caitlin Serowik

Weather Conditions

General Description	Clear	AM	Clear	PM
Temperature	70°F	AM	85°F	PM
Wind	0 mph	AM	0 mph	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No **X**	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA **X**
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA **X**

Health & Safety Comments

n/a

Summary of Work Performed	Arrived at site:	**11:00**	Departed Site:	**15:00**

TRC mobilized to conduct a site inspection of the Clinton West Plaza Site (site) located at West Clinton Street, Ithaca, New York. A site walk, initial inspection, and groundwater gauging event were conducted. All monitoring wells were located and in good condition, with the exception of MW-14 and TPMW-4 as it appeared the well has been covered in road debris as a result of winter plowing of the parking lot. Overall, the site appears to be in good condition.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA **X**
Were there any vehicles which were not tarped?	* Yes	No	NA **X**
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA **X**

Personnel and Equipment

Individual	Company	Trade	Total Hours
Stephen Johansson	TRC Engineers, Inc.	Engineer	4
Caitlin Serowik	TRC Engineers, Inc.	Geologist	4

Report No.20200625 **Site Name:** Clinton West Plaza **NYSDEC Site No.** 755015 **Date:** 6/25/2020

Equipment Description	Contractor/Vendor	Quantity	Used
Heron Interface Probe	Pine Environmental	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
n/a						
*On-Site scale for off-site shipment, delivery ticket for material received						

Report No.20200625 **Site Name:** Clinton West Plaza **NYSDEC Site No.** 755015 **Date:** 6/25/2020

Equipment/Material Tracking Comments: n/a

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
n/a		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
n/a	

Project Schedule Comments

n/a

Issues Pending

n/a
Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Report No.20200625 **Site Name:** Clinton West Plaza **NYSDEC Site No.** 755015 **Date:** 6/25/2020

Site Photographs (Descriptions Below)

Photo 1 – View of MMW-03 with the well cover removed.

Photo 2 – View facing northwest. Overview of a portion of the south parking lot located on the site where TPMW-4 was not able to be located.

Photo 3 – View facing southwest. Overview of the south parking lot facing toward the area where MW-14 was not able to be located.

Comments

Site Inspector(s): Caitlin Serowik & Steve Johansson

Date:

Report No.20200625 **Site Name:** Clinton West Plaza **NYSDEC Site No.** 755015 **Date:** 6/25/2020

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☒
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐
Comments:		

Report No.20200625 **Site Name:** Clinton West Plaza **NYSDEC Site No.** 755015 **Date:** 6/25/2020

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☐	N/A☒
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the Montauk Highway outfall?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

Appendix B

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-TPMW-04
SAMPLE TIME	1350

LOCATION ID	TPMW-04
DATE	6/24/2022
START TIME	1305
END TIME	1350
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	5.15 FT	**FINAL DTW (BMP)**	9.45 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	13.75 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	8.60 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.18 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.35 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.82 GAL	**DRAWDOWN/ TOTAL PURGED**	4.30	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1305	**BEGIN PURGING**									
1315		200	20.16	0.55	6.91	1.19	16.5	-117.0	11.75	
1325		200	19.62	0.54	6.77	0.00	31.6	-134.0	11.75	
1330		200	19.35	0.54	6.77	0.00	0.0	-136.0	11.75	
1335		200	19.33	0.55	6.72	0.00	0.0	-135.0	11.75	
1340	9.45	200	19.41	0.55	6.67	0.00	0.0	-133.0	11.75	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	19	**0.55**	**6.7**	**0.0**	**0**	**-133**

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [X] PID
- [X] WQ METER
- [ ] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO	
PURGE WATER CONTAINERIZED	[ ]	[X]	NUMBER OF GALLONS GENERATED: 1.82
NO-PURGE METHOD UTILIZED	[ ]	[X]	If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/7/2022

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-TPM-03
SAMPLE TIME	1630

LOCATION ID	TPM-03
DATE	6/23/2022
START TIME	1440
END TIME	1630
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.5 FT	**FINAL DTW (BMP)**	18.4 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	21.90 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	17.40 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.57 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.71 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.65 GAL	**DRAWDOWN/ TOTAL PURGED**	13.90	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1430	**BEGIN PURGING**									
1440	19.80	250	20.59	0.97	6.53	1.18	224.0	-85.0	19.9	Well Purged pry
1630	16.33	250							19.9	Allow well to recharge. Collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED

- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS

- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED

- [X] WL METER _____
- [X] PID _____
- [X] WQ METER _____
- [ ] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED: 0.65

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/7/2022

SKETCH/NOTES

Because well was purged dry, stabilized field parameters not required.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-MMW-01
SAMPLE TIME	1145

LOCATION ID	MW-001
DATE	6/24/2022
START TIME	1115
END TIME	1145
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.77 FT	**FINAL DTW (BMP)**	5.08 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	18.89 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	14.12 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.05 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.32 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.95 GAL	**DRAWDOWN/ TOTAL PURGED**	0.31	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1115	**BEGIN PURGING**									
1125	5.00	250	20.00	1.29	6.43	1.70	78.0	-27.0	17.89	
1135	5.05	250	19.78	1.36	6.33	0.00	28.8	-32.0	17.89	
1140	5.08	250	19.53	1.37	6.31	0.00	30.4	-36.0	17.89	
1145	5.08	250	19.06	1.40	6.28	0.00	28.9	-38.0	17.89	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	19	**1.4**	**6.3**	**0.0**	**28.9**	**-38**

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [X] PID
- [X] WQ METER
- [ ] TURB. METER
- [X] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED: 1.95

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/7/2022

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-TMPW-06
SAMPLE TIME	1045

LOCATION ID	TPMW-06
DATE	6/24/2022
START TIME	1005
END TIME	1045
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.76 FT	**FINAL DTW (BMP)**	9.99 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	16.18 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.42 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.21 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.47 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.39 GAL	**DRAWDOWN/ TOTAL PURGED**	5.23	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1005	**BEGIN PURGING**									
1015		100	18.94	1.74	6.76	2.01	155.0	-88.0	14.18	
1020										Well purged dry allow for recharge
1045	7.60									Well recharged, collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED

- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS

- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED

- [X] WL METER _____
- [X] PID _____
- [X] WQ METER _____
- [ ] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO	
PURGE WATER CONTAINERIZED	[ ]	[X]	NUMBER OF GALLONS GENERATED: 0.39
NO-PURGE METHOD UTILIZED	[ ]	[X]	If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/7/2022

SKETCH/NOTES

Because well was purged dry, stabilized field parameters not required.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-MMW-03
SAMPLE TIME	1620

LOCATION ID	MMW-03
DATE	6/23/2022
START TIME	1330
END TIME	1620
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.02 FT	**FINAL DTW (BMP)**	17.88 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.71 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.69 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	2.27 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.57 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.40 GAL	**DRAWDOWN/ TOTAL PURGED**	13.86	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1330	**BEGIN PURGING**									
1340	12.16	200	21.52	1.01	6.64	6.06	12.0	-90.0	17.71	
1350	14.56	120	21.40	0.95	6.65	1.99	50.6	-90.0	17.71	Adjust purge rate
1355	15.50	120	21.09	0.96	6.65	1.45	58.6	-89.0	17.71	
1400	15.89	120	21.52	0.91	6.66	6.67	50.2	-92.0	17.71	
1405	16.34	120	22.24	0.90	6.69	6.43	51.5	-91.0	17.71	
1410	16.95	120	21.23	0.98	6.68	6.23	55.5	-92.0	17.71	
1415	17.60	120	21.45	0.91	6.62	5.75	66.7	-83.0	17.71	
1420										Well purged dry
1620	14.08									Well recharged, collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [X] PID _____
- [X] WQ METER _____
- [ ] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED: 1.40

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/7/2022

SKETCH/NOTES

Because well was purged dry, stabilized field parameters not required.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-MMW-04
SAMPLE TIME	1255

LOCATION ID	MMW-04
DATE	6/24/2022
START TIME	1215
END TIME	1255
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	5.19 FT	**FINAL DTW (BMP)**	17.55 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	30.06 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	24.87 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	2.03 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	4.08 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.28 GAL	**DRAWDOWN/ TOTAL PURGED**	12.36	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1215	**BEGIN PURGING**									
1225	11.85	250	24.87	1.12	6.56	0.00	0.0	-76.0	28.06	
1235	16.35	250	25.35	1.14	6.55	0.00	0.0	-81.0	28.06	
1240	17.02	250	25.66	1.12	6.58	0.00	0.0	-84.0	28.06	
1245	17.22	250	25.82	1.12	6.59	0.00	0.0	-85.0	28.06	
1250	17.50	250	26.05	1.10	6.59	0.00	1.1	-85.0	28.06	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	26	**1.1**	**6.6**	**0.0**	**1.1**	**-85**

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [X] PID
- [X] WQ METER
- [ ] TURB. METER
- [X] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED: 2.28

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/72022

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-TPM-01
SAMPLE TIME	1610

LOCATION ID	TPMW-01
DATE	6/23/2022
START TIME	1535
END TIME	1610
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.18 FT	**FINAL DTW (BMP)**	22.02 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	25.08 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	20.90 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.73 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.86 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.65 GAL	**DRAWDOWN/ TOTAL PURGED**	17.84	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1535	**BEGIN PURGING**									
1545	23.00	250	14.82	1.25	6.57	1.37	624.0	-75.0	23.08	Well purged dry
1605	20.05									Allow recharge collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [X] PID _____
- [X] WQ METER _____
- [ ] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED: 0.65

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date:

SKETCH/NOTES

Because well was purged dry, stabilized field parameters not required.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-TPM-02
SAMPLE TIME	1640

LOCATION ID	TPMW-02
DATE	6/23/2022
START TIME	1455
END TIME	1640
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.49 FT	**FINAL DTW (BMP)**	16.03 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	25.35 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	20.86 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.47 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.86 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.46 GAL	**DRAWDOWN/ TOTAL PURGED**	11.54	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1455	**BEGIN PURGING**									
1502		250							23.35	Well purged dry
1640	12.04									Allow well to recharge, collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [X] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [X] PID
- [X] WQ METER
- [ ] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ____ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO	
PURGE WATER CONTAINERIZED	[ ]	[X]	NUMBER OF GALLONS GENERATED: 0.46
NO-PURGE METHOD UTILIZED	[ ]	[X]	If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/7/2022

SKETCH/NOTES

Because well was purged dry, stabilized field parameters not required.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	CWP-MW-14
SAMPLE TIME	1310

LOCATION ID	MW-14
DATE	6/23/2022
START TIME	1405
END TIME	1310
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	5.9 FT	**FINAL DTW (BMP)**	11.43 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	15.10 FT	**SCREEN LENGTH**	unknown FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	9.20 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.23 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.52 GAL	**DRAWDOWN/ TOTAL PURGED**	5.53	**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1405	**BEGIN PURGING**									
1415	14.50	200	19.07	0.92	6.84	7.03	30.0	-72.0		Well purged dry. Allow for recharge
1310	6.20									Well recharged, collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED

- [X] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS

- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED

- [X] WL METER
- [X] PID
- [X] WQ METER
- [ ] TURB. METER
- [X] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED: 0.52

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Because well was purged dry, stabilized field parameters not required.

Sampler Signature: Caitlin Serowik Print Name: Caitlin Serowik

Checked By: Date: 7/72022

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	MMW-01
SAMPLE TIME	10:13

LOCATION ID	Clinton West MMW-01
DATE	7/25/2023
START TIME	09:43
END TIME	10:15
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER 1.5 inch well

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	3.60 FT	**FINAL DTW (BMP)**	3.60 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.19 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.59 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.56 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0943	**BEGIN PURGING**									
0948	0.00	100	16.6	2.163	6.23	0.89	71.23	258.7	16	
0953	0.00	100	16.0	2.157	6.22	1.05	55.32	272.3	16	
0958	0.00	100	16.0	2.177	6.16	0.27	146.00	281.5	16	
1003	0.00	100	16.1	2.147	6.18	0.18	166.51	286.6	16	
1008	0.00	100	16.2	2.164	6.16	0.14	180.70	294.0	16	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

16.2	**2.164**	**6.16**	**0.14**	**180.70**	**294.0**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER
- [X] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

MMW-01, MS, MSD @ 1013

VOCs

High Turbidity

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	MMW-02
SAMPLE TIME	11:47

LOCATION ID	Clinton West MMW-02
DATE	7/25/2023
START TIME	11:22
END TIME	11:50
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER 1,5 inch well

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	4.31 FT	**FINAL DTW (BMP)**	4.33 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	18.27 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	13.96 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0033 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.29 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.97 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1122	**BEGIN PURGING**									
1127	0.00	150	18.0	1.102	6.64	1.62	8.20	-72.8	14	
1132	0.01	150	17.4	1.088	6.61	0.88	8.28	-87.7	14	
1137	0.01	150	17.6	1.090	6.54	0.81	9.33	-90.4	14	
1142	0.00	150	17.6	1.088	6.53	0.79	9.82	-91.7	14	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

17.6	**1.088**	**6.53**	**0.79**	**9.82**	**-91.7**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER
- [X] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

MMW-02 @ 1147

VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	MMW-03
SAMPLE TIME	11:06

LOCATION ID	Clinton West MMW-03
DATE	7/25/2023
START TIME	10:36
END TIME	11:10
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER 1.5 inch well

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	3.61 FT	**FINAL DTW (BMP)**	4.35 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.29 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.68 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.1214 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.57 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1036	**BEGIN PURGING**									
1041	0.08	100	18.9	2.144	6.44	0.53	35.00	257.1	16	
1046	0.33	100	18.5	2.123	6.43	0.31	81.62	272.1	16	
1051	0.20	100	18.2	2.083	6.44	0.21	N/A	285.9	16	Turbidity Meter Issue
1056	0.11	100	18.2	2.076	6.46	0.18	N/A	290.6	16	
1101	0.02	100	18.4	2.069	6.46	0.16	N/A	291.1	16	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**18.4**	**2.069**	**6.46**	**0.16**	**N/A**	**291.1**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER
- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER
- [X] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

MMW-03 @ 1106

VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	MMW-04
SAMPLE TIME	12:22

LOCATION ID	Clinton West MMW-04
DATE	7/25/2023
START TIME	11:52
END TIME	12:25
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER 1.5 inch well

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	4.22 FT	**FINAL DTW (BMP)**	4.22 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.55 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	25.33 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	4.15 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.17 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1152	**BEGIN PURGING**									
1157	0.00	150	21.9	0.014	6.73	5.61	9.07	-71.9	24	
1202	0.00	150	19.2	1.378	6.58	1.08	6.49	-74.9	24	
1207	0.00	150	18.3	1.373	6.56	0.75	1.52	-79.4	24	
1212	0.00	150	18.4	1.372	6.55	0.72	1.14	-82.4	24	
1217	0.00	150	18.5	1.370	6.53	0.71	1.12	-83.1	24	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**18.5**	**1.370**	**6.53**	**0.71**	**1.12**	**-83.1**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER
- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER
- [X] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

MMW-04 @ 1222

VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	MW-14
SAMPLE TIME	11:51

LOCATION ID	Clinton West MW-14
DATE	7/25/2023
START TIME	11:21
END TIME	11:55
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER 0.75 inch well

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	4.15 FT	**FINAL DTW (BMP)**	4.16 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	14.49 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10.34 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0016 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.70 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1121	**BEGIN PURGING**									
1126	0.01	100	18.0	1.885	6.79	1.69	N/A	257.6	12	Turbidity meter issue
1131	0.00	100	18.6	1.856	6.71	2.28	10.19	283.4	12	
1136	0.00	100	19.1	1.832	6.70	2.37	8.09	291.1	12	
1141	0.00	100	18.4	1.818	6.71	2.44	0.84	297.6	12	
1146	0.00	100	18.4	1.814	6.70	2.46	-0.30	300.4	12	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	18.4	**1.814**	**6.70**	**2.46**	**-0.30**	**300.4**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER
- [X] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

MW-14 @ 1151

VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	TPMW-04
SAMPLE TIME	10:14

LOCATION ID	Clinton West TPMW-04
DATE	7/25/2023
START TIME	09:44
END TIME	10:15
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	3.12 FT	**FINAL DTW (BMP)**	3.12 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	13.09 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	9.97 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.64 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0944	**BEGIN PURGING**									
0949	0.00	100	22.1	1.178	6.53	3.58	13.87	-98.3	10	
0954	0.00	100	20.6	1.111	6.51	1.80	18.70	-108.5	10	
0959	0.00	100	20.3	0.901	6.55	0.96	17.97	-105.2	10	
1004	0.00	100	20.4	0.898	6.60	0.89	17.25	-111.3	10	
1009	0.00	100	19.7	0.897	6.66	0.86	17.11	-116.4	10	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	19.7	**0.897**	**6.66**	**0.86**	**17.11**	**-116.4**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [ ] PID _____
- [X] WQ METER _____
- [X] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

TPMW-04 @ 1014

DUP-01 @ 0800

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	TPMW-06
SAMPLE TIME	12:45

LOCATION ID	MW-
DATE	7/25/2023
START TIME	12:15
END TIME	12:50
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	4.50 FT	**FINAL DTW (BMP)**	4.65 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	15.62 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.12 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0246 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.82 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1215	**BEGIN PURGING**									
1220	0.12	100	20.2	2.088	6.60	1.40	19.43	285.4	12	
1225	0.03	100	19.7	2.093	6.49	0.39	N/A	297.2	12	Turbidity meter issue
1230	0.00	100	19.7	2.084	6.47	0.21	N/A	311.5	12	
1235	0.00	100	19.6	2.093	6.45	0.16	N/A	319.8	12	
1240	0.00	100	19.5	2.089	6.45	0.14	N/A	317.2	12	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**19.5**	**2.089**	**6.45**	**0.14**	**N/A**	**317.2**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [ ] PID _____
- [X] WQ METER _____
- [X] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

TPMW-06 @ 1245

VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	TPM-02
SAMPLE TIME	11:20

LOCATION ID	Clinton West TMP-02
DATE	7/25/2023
START TIME	10:55
END TIME	11:25
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	6.54 FT	**FINAL DTW (BMP)**	6.54 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	28.18 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	21.64 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	3.55 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.98 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1055	**BEGIN PURGING**									
1100	0.00	150	21.6	1.577	6.51	3.40	7.00	-55.3	25	
1105	0.00	150	18.5	1.604	6.47	1.41	5.30	-68.3	25	
1110	0.00	150	18.3	1.589	6.45	1.36	5.02	-72.5	25	
1115	0.00	150	18.9	1.592	6.44	1.32	6.98	-74.0	25	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	18.9	**1.592**	**6.44**	**1.32**	**6.98**	**-74.0**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [ ] PID _____
- [X] WQ METER _____
- [X] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

TPM-02 @ 1120

VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Clinton West Plaza
PROJECT NUMBER	386554.0013
SAMPLE ID	TPM-03
SAMPLE TIME	10:50

LOCATION ID	Clinton West TPM-03
DATE	7/25/2023
START TIME	10:20
END TIME	10:55
SITE NAME/NUMBER	755015
PAGE	1 OF 1

WELL DIAMETER (INCHES) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER _____

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER _____

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	3.39 FT	**FINAL DTW (BMP)**	5.63 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	21.36 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	17.97 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.3674 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.95 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1020	**BEGIN PURGING**									
1025	0.52	100	23.6	1.407	6.54	2.26	8.43	-93.8	17	
1030	1.60	100	22.0	1.446	6.53	1.14	6.90	-97.9	17	
1035	0.08	100	21.1	1.453	6.53	0.82	6.88	-99.8	17	
1040	0.02	100	20.9	1.459	6.53	0.79	6.82	-100.7	17	
1045	0.02	100	20.9	1.463	6.54	0.76	6.76	-101.9	17	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])										
			20.9	**1.463**	**6.54**	**0.76**	**6.76**	**-101.9**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [ ] PID _____
- [X] WQ METER _____
- [X] TURB. METER _____
- [X] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTE	QC COLLECTE	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Nam

Checked By: Date:

SKETCH/NOTES

TPM-03 @ 1050

VOCs

Large drop in water column at start

Appendix C

Data Usability Summary Report

Site: Clinton West Plaza
Laboratory: Con-test/Pace New England - East Longmeadow, MA
SDGs: 22G0052
Parameter: Volatile Organic Compounds (VOCs)
Data Reviewer: David DiGena-Segal/TRC
Peer Reviewer: Liz Denly/TRC
Date: January 4, 2023

Samples Reviewed and Evaluation Summary

10 Groundwater Samples: CWP-DUP-1[1], CWP-MW-14, CWP-MMW-1, CWP-MMW-03, CWP-MMW-04, CWP-TPM-01, CWP-TPM-02, CWP-TPM-03, CWP-TPMW-4, CWP-TPMW-6

[1]Field duplicate for sample CWP-MMW-1

The above-listed samples were collected on June 23 and 24, 2022 and were analyzed for VOCs by SW-846 Method 8260D. The data validation was performed in accordance with the following data validation guidelines modified for the SW-846 methodology utilized.

- EPA Region 2 Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SOP HW-24, Revision 4, September 2014
- EPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005), November 2020

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- * Holding Times and Sample Preservation
- * Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- * Blanks
- * Surrogate Recoveries
- * Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- * Internal Standards
- Field Duplicate Results
- Sample Results and Reported Quantitation Limits (QLs)
- * Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error are discussed below.

- The positive and nondetect results for o-xylene, methyl cyclohexane, m+p xylene, and total xylenes in samples CWP-MMW-1 and CWP-DUP-1 were qualified as estimated (J/UJ) due to field duplicate variability. These results can be used for project objectives as estimated values and nondetects with estimated QLs, which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC results that were detected between the method detection limit (MDL) and QL. These results were qualified as estimated (J) in the associated samples. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The positive and nondetect results for select VOCs in all samples were qualified as estimated (J/UJ) due to continuing calibration nonconformances. These results can be used for project objectives as estimated values and nondetects with estimated QLs, which may have a minor impact on the data usability.

- The nondetect results for acetone, chloromethane, methyl acetate, and 1,2,3-trichlorobenzene were qualified as estimated (UJ) with a potential low bias in sample CWP-TPMW-6 due to low recoveries in the MS and/or MSD analyses. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

Data Completeness

The data packages were complete Level IV data deliverables with the following exceptions.

- The laboratory reported additional analytes that were not requested; the laboratory was contacted about this issue and provided a revised report.
- The laboratory incorrectly logged in sample CWP-MW-14 with the wrong date of collection. This was manually updated during validation; the laboratory was not contacted about this issue.
- The laboratory did not report the RL and MDL for total xylenes; the laboratory was contacted about this issue and provided a revised report.

Holding Times and Sample Preservation

Holding time and sample preservation criteria were met. Samples were collected 7-8 days before receipt at the Pace New England laboratory; this was due to shipment to a different Pace laboratory (Pace Melville, NY) initially. The samples were stored on ice by the field staff until being relinquished on June 24, 2022; the Received By signature on the chain-of-custody was three days after the samples were relinquished by the field staff. There is no record of where samples were stored between June 24 – 27, 2022. Samples were received by Pace Melville on June 27, 2022 but no sample receipt checklist or cooler temperatures were provided by Pace Melville; the laboratory was contacted during validation and stated that although no sample receipt checklist or cooler temperatures were provided, the samples were likely stored in the original cooler and placed within the laboratory's cold storage until being re-iced and shipped to the Pace New England laboratory. Since samples were received by the Pace New England laboratory on ice and within the temperature requirements, no validation actions were taken on this basis.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

The correlation coefficients, percent relative standard deviations, and relative response factors (RRFs) were within the method acceptance criteria in the initial calibrations associated with the samples in this data set.

The following table summarizes the percent differences or percent drifts (%Ds) and RRFs that did not meet the method acceptance criteria in the continuing calibration (CC) standards, the associated samples, and the validation actions.

CC	Compound	%D	Validation Actions
S073715-CCV1 07/06/22	Acetone	-22.3	The positive and nondetect results for these VOCs were qualified as estimated (J/UJ) in the associated samples.
	Chloromethane	-58.4	
	1,2,3-Trichlorobenzene	-26.8	
Associated samples: All samples in this data set.			

Blanks

Target compounds were not detected in the laboratory method blank.

Surrogate Recoveries

The surrogate percent recoveries (%Rs) were within the laboratory's acceptance limits.

LCS/LCSD Results

An LCS/LSCD was analyzed with this sample set. All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample CWP-TPMW-6. The table below summarizes the MS and/or MSD %Rs that were outside of the laboratory's acceptance criteria and the validation actions. The RPDs were within the laboratory's acceptance criteria.

Parent Sample ID	Compound	MS %R	MSD %R	MS/MSD %R Limits	Validation Action
CWP-TPMW-6	Acetone	69.2	-	70-130	The nondetect results for acetone, chloromethane, methyl acetate, and 1,2,3-trichlorobenzene were qualified as estimated (UJ) with a potential low bias in sample CWP-TPMW-6
	Chloromethane	42.4	43.5		
	Methyl Acetate	63.2	66.4		
	1,2,3-Trichlorobenzene	67.5	-		
-: Met criteria					

Internal Standards

All criteria were met.

Field Duplicate Results

One field duplicate pair was submitted with this data set: CWP-MMW-1/CWP-DUP-1. The duplicate RPD is not applicable for comparison of field duplicate results if either concentration is <5x the QL; comparison in this case is based on the absolute difference (AbsD) between the results. The acceptance limits for field duplicates in aqueous media is ≤30% for the RPD and <QL for the AbsD. If an analyte was detected in one sample and nondetect in the other, the QL is used to represent the nondetect result in the AbsD calculation. The following table summarizes the detected results, the AbsD or RPD values (as appropriate) for the detected analytes, and the resulting validation actions.

Analyte	CWP-MMW-1		CWP-DUP-1		RPD (%) or AbsD (µg/L)	Validation Actions
	QL (µg/L)	Result (µg/L)	QL (µg/L)	Result (µg/L)		
2-Butanone	2000	2000 U	1000	140 J	AbsD: 1860	Although the AbsD for 2-butanone was > the field duplicate sample QL, the AbsD was < the parent sample QL. Professional judgment was used and since 2-butanone was nondetect in one sample and detected < the QL in the other, no validation actions were taken on this basis.
cis-1,2-Dichloroethylene	100	420	50	420	AbsD: 0	None; all criteria were met.
Ethylbenzene	100	85 J	50	50 U	AbsD: 35	
Vinyl Chloride	200	3200	100	3300	RPD: 3.1	
o-Xylene	100	120	50	50 U	AbsD: 70*	The positive and nondetect results for o-xylene, methyl cyclohexane, m+p xylene and total xylenes were qualified as estimated (J/UJ) in samples CWP-MMW-1 and CWP-DUP-1.
Methyl Cyclohexane	100	130	50	50 U	AbsD: 80*	
m+p Xylene	200	360	100	100 U	AbsD: 260	
Total Xylenes	100	480	50	50 U	AbsD: 430	

*Professional judgement was used for o-xylene and methyl cyclohexane; since the results were detected > the QL in the parent sample and were nondetect at a lower QL in the field duplicate sample, these results were qualified accordingly.

Sample Results and Reported Quantitation Limits

Select VOC results were reported between the MDL and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

Sample calculations were spot-checked; there were no errors noted.

The following table summarizes the dilutions that were performed on the samples in this data set.

Sample ID(s)	Dilution	Reason for Dilution
CWP-MMW-04 CWP-TPM-01 CWP-TPM-03	2-fold	Dilutions were performed due to foaming sample matrix.
CWP-DUP-1	50-fold	Dilutions were performed due to the concentrations of target analytes, which would have exceeded the calibration range if analyzed undiluted.
CWP-MMW-1	100-fold	

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MW-14 | Sampled: ~~6/29/2022~~ 6/29/2022 15:10

Sample ID: 22G0052-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	7.2 J	50	2.0	µg/L	1	~~J, V-05~~	SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 14:23	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Methylene Chloride	0.38	5.0	0.23	µg/L	1	J	SW-846 8260D	7/6/22	7/6/22 14:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	5.0	0.30	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MW-14 | Sampled: 6/29/2022 15:10

Sample ID: 22G0052-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/6/22	7/6/22 14:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.1	70-130		7/6/22 14:23
Toluene-d8	100	70-130		7/6/22 14:23
4-Bromofluorobenzene	101	70-130		7/6/22 14:23

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPM-01 | Sampled: 6/23/2022 16:10

Sample ID: 22G0052-02

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~ND~~ UJ	100	4.1	µg/L	2	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Bromomethane	ND	10	3.1	µg/L	2	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 14:49	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Chloromethane	~~ND~~ UJ	4.0	1.0	µg/L	2	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,1-Dichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
cis-1,2-Dichloroethylene	ND	2.0	0.29	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
trans-1,2-Dichloroethylene	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	10	0.61	µg/L	2	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPM-01 | Sampled: 6/23/2022 16:10

Sample ID: 22G0052-02

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Trichloroethylene	ND	2.0	0.38	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Vinyl Chloride	ND	4.0	0.42	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	7/6/22	7/6/22 14:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	83.4	70-130		7/6/22 14:49
Toluene-d8	98.6	70-130		7/6/22 14:49
4-Bromofluorobenzene	98.9	70-130		7/6/22 14:49

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MMW-03 | Sampled: 6/23/2022 16:20

Sample ID: 22G0052-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	19 J	50	2.0	µg/L	1	~~J, V-05~~	SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 15:15	MFF
2-Butanone (MEK)	23	20	1.6	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Methylene Chloride	0.41	5.0	0.23	µg/L	1	J	SW-846 8260D	7/6/22	7/6/22 15:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	5.0	0.30	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MMW-03 | Sampled: 6/23/2022 16:20

Sample ID: 22G0052-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/6/22	7/6/22 15:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.8	70-130		7/6/22 15:15
Toluene-d8	99.6	70-130		7/6/22 15:15
4-Bromofluorobenzene	97.7	70-130		7/6/22 15:15

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPM-03 | Sampled: 6/23/2022 16:30

Sample ID: 22G0052-04

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	8.2 J	100	4.1	µg/L	2	~~J, V-05~~	SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Bromomethane	ND	10	3.1	µg/L	2	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 15:41	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Chloromethane	~~ND~~ UJ	4.0	1.0	µg/L	2	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,1-Dichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
cis-1,2-Dichloroethylene	ND	2.0	0.29	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
trans-1,2-Dichloroethylene	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	10	0.61	µg/L	2	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPM-03 | Sampled: 6/23/2022 16:30

Sample ID: 22G0052-04

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Trichloroethylene	ND	2.0	0.38	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Vinyl Chloride	ND	4.0	0.42	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	7/6/22	7/6/22 15:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.5	70-130		7/6/22 15:41
Toluene-d8	100	70-130		7/6/22 15:41
4-Bromofluorobenzene	100	70-130		7/6/22 15:41

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPM-02 | Sampled: 6/23/2022 16:40

Sample ID: 22G0052-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	13 J	50	2.0	µg/L	1	~~J, V-05~~	SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 16:08	MFF
2-Butanone (MEK)	22	20	1.6	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Methylene Chloride	0.42	5.0	0.23	µg/L	1	J	SW-846 8260D	7/6/22	7/6/22 16:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	5.0	0.30	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPM-02 | Sampled: 6/23/2022 16:40

Sample ID: 22G0052-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.0	70-130		7/6/22 16:08
Toluene-d8	99.2	70-130		7/6/22 16:08
4-Bromofluorobenzene	98.6	70-130		7/6/22 16:08

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPMW-6 | Sampled: 6/24/2022 10:45

Sample ID: 22G0052-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	50	2.0	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 16:34	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-34, MS-09, V-05~~	SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Methyl Acetate	~~ND~~ UJ	1.0	0.45	µg/L	1	~~MS-09~~	SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Methylene Chloride	0.44	5.0	0.23	µg/L	1	J	SW-846 8260D	7/6/22	7/6/22 16:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	5.0	0.30	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPMW-6 | Sampled: 6/24/2022 10:45

Sample ID: 22G0052-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/6/22	7/6/22 16:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.0	70-130		7/6/22 16:34
Toluene-d8	100	70-130		7/6/22 16:34
4-Bromofluorobenzene	99.1	70-130		7/6/22 16:34

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MMW-1 | Sampled: 6/24/2022 11:45

Sample ID: 22G0052-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~ND~~ UJ	5000	200	µg/L	100	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Benzene	ND	100	20	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Bromochloromethane	ND	100	31	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Bromodichloromethane	ND	50	18	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Bromoform	ND	100	38	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Bromomethane	ND	500	150	µg/L	100	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 19:37	MFF
2-Butanone (MEK)	ND	2000	160	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Carbon Disulfide	ND	500	140	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Carbon Tetrachloride	ND	500	16	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Chlorobenzene	ND	100	11	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Chlorodibromomethane	ND	50	22	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Chloroethane	ND	200	32	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Chloroform	ND	200	17	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Chloromethane	~~ND~~ UJ	200	52	µg/L	100	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Cyclohexane	ND	500	180	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	80	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2-Dibromoethane (EDB)	ND	50	17	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2-Dichlorobenzene	ND	100	12	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,3-Dichlorobenzene	ND	100	12	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,4-Dichlorobenzene	ND	100	13	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	200	19	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,1-Dichloroethane	ND	100	14	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2-Dichloroethane	ND	100	31	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,1-Dichloroethylene	ND	100	14	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
cis-1,2-Dichloroethylene	420	100	15	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
trans-1,2-Dichloroethylene	ND	100	17	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2-Dichloropropane	ND	100	18	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
cis-1,3-Dichloropropene	ND	50	16	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
trans-1,3-Dichloropropene	ND	50	17	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Ethylbenzene	85	100	21	µg/L	100	J	SW-846 8260D	7/6/22	7/6/22 19:37	MFF
2-Hexanone (MBK)	ND	1000	110	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Isopropylbenzene (Cumene)	ND	100	11	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Methyl Acetate	ND	100	45	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	100	17	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Methyl Cyclohexane	130 J	100	24	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Methylene Chloride	ND	500	23	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	1000	130	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Styrene	ND	100	11	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,1,2,2-Tetrachloroethane	ND	50	13	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Tetrahydrofuran	ND	1000	49	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Toluene	ND	100	22	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	500	30	µg/L	100	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,2,4-Trichlorobenzene	ND	100	25	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,1,1-Trichloroethane	ND	100	17	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MMW-1 | Sampled: 6/24/2022 11:45

Sample ID: 22G0052-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	100	18	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Trichloroethylene	ND	100	19	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Trichlorofluoromethane (Freon 11)	ND	200	18	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	23	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Vinyl Chloride	3200	200	21	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
m+p Xylene	360 J	200	46	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
o-Xylene	120 J	100	23	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF
Xylenes (total)	480 J	100	100	µg/L	100		SW-846 8260D	7/6/22	7/6/22 19:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.7	70-130		7/6/22 19:37
Toluene-d8	100	70-130		7/6/22 19:37
4-Bromofluorobenzene	99.1	70-130		7/6/22 19:37

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-DUP-1 | Sampled: 6/24/2022 08:00

Sample ID: 22G0052-08

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~ND~~ UJ	2500	100	µg/L	50	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Benzene	ND	50	10	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Bromochloromethane	ND	50	15	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Bromodichloromethane	ND	25	9.0	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Bromoform	ND	50	19	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Bromomethane	ND	250	77	µg/L	50	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 20:04	MFF
2-Butanone (MEK)	140	1000	81	µg/L	50	J	SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Carbon Disulfide	ND	250	72	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Carbon Tetrachloride	ND	250	8.2	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Chlorobenzene	ND	50	5.3	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Chlorodibromomethane	ND	25	11	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Chloroethane	ND	100	16	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Chloroform	ND	100	8.4	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Chloromethane	~~ND~~ UJ	100	26	µg/L	50	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Cyclohexane	ND	250	88	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	40	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2-Dibromoethane (EDB)	ND	25	8.5	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2-Dichlorobenzene	ND	50	6.1	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,3-Dichlorobenzene	ND	50	5.9	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,4-Dichlorobenzene	ND	50	6.5	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	100	9.6	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,1-Dichloroethane	ND	50	7.1	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2-Dichloroethane	ND	50	15	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,1-Dichloroethylene	ND	50	7.1	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
cis-1,2-Dichloroethylene	420	50	7.3	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
trans-1,2-Dichloroethylene	ND	50	8.4	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2-Dichloropropane	ND	50	9.1	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
cis-1,3-Dichloropropene	ND	25	7.9	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
trans-1,3-Dichloropropene	ND	25	8.4	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Ethylbenzene	ND	50	11	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
2-Hexanone (MBK)	ND	500	56	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Isopropylbenzene (Cumene)	ND	50	5.4	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Methyl Acetate	ND	50	23	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	50	8.6	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Methyl Cyclohexane	~~ND~~ UJ	50	12	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Methylene Chloride	ND	250	12	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	500	64	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Styrene	ND	50	5.3	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,1,2,2-Tetrachloroethane	ND	25	6.3	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Tetrahydrofuran	ND	500	25	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Toluene	ND	50	11	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	250	15	µg/L	50	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,2,4-Trichlorobenzene	ND	50	12	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,1,1-Trichloroethane	ND	50	8.4	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-DUP-1 | Sampled: 6/24/2022 08:00

Sample ID: 22G0052-08

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	50	9.1	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Trichloroethylene	ND	50	9.5	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Trichlorofluoromethane (Freon 11)	ND	100	8.8	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	11	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Vinyl Chloride	3300	100	10	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
m+p Xylene	~~ND~~ UJ	100	23	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
o-Xylene	~~ND~~ UJ	50	11	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF
Xylenes (total)	~~ND~~ UJ	50	50	µg/L	50		SW-846 8260D	7/6/22	7/6/22 20:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.9	70-130		7/6/22 20:04
Toluene-d8	98.6	70-130		7/6/22 20:04
4-Bromofluorobenzene	99.2	70-130		7/6/22 20:04

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Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MMW-04 | Sampled: 6/24/2022 12:55

Sample ID: 22G0052-09

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~ND~~ UJ	100	4.1	µg/L	2	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Bromomethane	ND	10	3.1	µg/L	2	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 19:11	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Chloromethane	~~ND~~ UJ	4.0	1.0	µg/L	2	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,1-Dichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
cis-1,2-Dichloroethylene	ND	2.0	0.29	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
trans-1,2-Dichloroethylene	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	10	0.61	µg/L	2	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-MMW-04 | Sampled: 6/24/2022 12:55

Sample ID: 22G0052-09

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Trichloroethylene	ND	2.0	0.38	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Vinyl Chloride	ND	4.0	0.42	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	7/6/22	7/6/22 19:11	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	83.1	70-130		7/6/22 19:11
Toluene-d8	99.9	70-130		7/6/22 19:11
4-Bromofluorobenzene	100	70-130		7/6/22 19:11

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPMW-4 | Sampled: 6/24/2022 13:50

Sample ID: 22G0052-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~ND~~ UJ	50	2.0	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	~~V-34~~	SW-846 8260D	7/6/22	7/6/22 17:00	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05, V-34~~	SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
cis-1,2-Dichloroethylene	9.2	1.0	0.15	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Methylene Chloride	0.42	5.0	0.23	µg/L	1	J	SW-846 8260D	7/6/22	7/6/22 17:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	5.0	0.30	µg/L	1	~~V-05~~	SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF

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

Project Location: Clinton West Plaza | Sample Description: | Work Order: 22G0052

Date Received: 7/1/2022

Field Sample #: CWP-TPMW-4 | Sampled: 6/24/2022 13:50

Sample ID: 22G0052-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Vinyl Chloride	11	2.0	0.21	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/6/22	7/6/22 17:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.4	70-130		7/6/22 17:00
Toluene-d8	101	70-130		7/6/22 17:00
4-Bromofluorobenzene	98.8	70-130		7/6/22 17:00

QC NONCONFORMANCE DOCUMENTATION

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22G0052
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza - CO SMPB0001
Instrument ID:	GCMSVOA2	Calibration:	2000186
Lab File ID:	B22V18702.D	Calibration Date:	06/09/20 08:37
Sequence:	S073715	Injection Date:	07/06/22
Lab Sample ID:	S073715-CCV1	Injection Time:	10:27

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100	77.8	0.212736	0.1654018		-22.3	20	*
Acrylonitrile	A	10.0	11.0	0.2344508	0.2578163		10.0	20	
tert-Amyl Methyl Ether (TAME)	A	10.0	10.6	1.258459	1.33536		6.1	20	
Benzene	A	10.0	9.99	1.817602	1.814923		-0.1	20	
Bromobenzene	A	10.0	11.2	0.9779525	1.099791		12.5	20	
Bromochloromethane	A	10.0	11.0	0.1959787	0.2147656		9.6	20	
Bromodichloromethane	A	10.0	10.5	0.3852316	0.404298		4.9	20	
Bromoform	A	10.0	9.78	0.3779343	0.369587		-2.2	20	
Bromomethane	L	10.0	10.6	0.1593963	0.1495702		6.3	20	
2-Butanone (MEK)	A	100	87.0	0.331706	0.2885598		-13.0	20	
tert-Butyl Alcohol (TBA)	A	100	92.4	7.471108E-02	6.900499E-02		-7.6	20	
n-Butylbenzene	A	10.0	9.15	2.3317	2.134415		-8.5	20	
sec-Butylbenzene	A	10.0	9.68	2.877135	2.784595		-3.2	20	
tert-Butylbenzene	A	10.0	10.4	1.923578	2.00599		4.3	20	
tert-Butyl Ethyl Ether (TBEE)	A	10.0	10.5	1.728532	1.814811		5.0	20	
Carbon Disulfide	A	100	102	1.270917	1.302455		2.5	20	
Carbon Tetrachloride	A	10.0	10.1	0.6823544	0.6875727		0.8	20	
Chlorobenzene	A	10.0	10.2	1.528388	1.558328		2.0	20	
Chlorodibromomethane	A	10.0	10.5	0.2959761	0.3098009		4.7	20	
Chloroethane	A	10.0	10.7	0.383947	0.4109898		7.0	20	
Chloroform	A	10.0	9.89	0.8443192	0.8351162		-1.1	20	
Chloromethane	A	10.0	4.16	1.874805	0.7803926		-58.4	20	*
2-Chlorotoluene	A	10.0	10.8	1.924599	2.083854		8.3	20	
4-Chlorotoluene	A	10.0	10.7	2.239113	2.401476		7.3	20	
Cyclohexane	A	10.0	10.9	1.143235	1.24209		8.6	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	8.16	0.1356244	0.1106569		-18.4	20	
1,2-Dibromoethane (EDB)	A	10.0	11.2	0.2715879	0.3052567		12.4	20	
Dibromomethane	A	10.0	11.2	0.1743876	0.1957072		12.2	20	
1,2-Dichlorobenzene	A	10.0	9.37	1.208544	1.132837		-6.3	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22G0052
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza - CO SMPB0001
Instrument ID:	GCMSVOA2	Calibration:	2000186
Lab File ID:	B22V18702.D	Calibration Date:	06/09/20 08:37
Sequence:	S073715	Injection Date:	07/06/22
Lab Sample ID:	S073715-CCV1	Injection Time:	10:27

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
n-Propylbenzene	A	10.0	10.5	3.359447	3.523272		4.9	20	
Styrene	A	10.0	11.0	1.644621	1.807017		9.9	20	
1,1,1,2-Tetrachloroethane	A	10.0	10.7	0.5105569	0.5444824		6.6	20	
1,1,2,2-Tetrachloroethane	A	10.0	10.2	0.7048981	0.7203058		2.2	20	
Tetrachloroethylene	A	10.0	11.9	0.252829	0.3008417		19.0	20	
Tetrahydrofuran	A	10.0	10.3	0.2085948	0.2141651		2.7	20	
Toluene	A	10.0	11.1	1.27443	1.413997		11.0	20	
1,2,3-Trichlorobenzene	A	10.0	7.32	0.7546459	0.5527583		-26.8	20	*
1,2,4-Trichlorobenzene	A	10.0	8.65	0.8051003	0.6965233		-13.5	20	
1,3,5-Trichlorobenzene	A	10.0	9.19	0.9189832	0.8447808		-8.1	20	
1,1,1-Trichloroethane	A	10.0	9.83	0.7575683	0.7449612		-1.7	20	
1,1,2-Trichloroethane	A	10.0	11.3	0.244339	0.2765203		13.2	20	
Trichloroethylene	A	10.0	11.3	0.2912573	0.3298621		13.3	20	
Trichlorofluoromethane (Freon 11)	A	10.0	8.43	0.7942548	0.6695567		-15.7	20	
1,2,3-Trichloropropane	A	10.0	11.2	0.1936737	0.217139		12.1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	11.1	0.3852846	0.4285929		11.2	20	
1,2,4-Trimethylbenzene	A	10.0	10.2	2.233447	2.286356		2.4	20	
1,3,5-Trimethylbenzene	A	10.0	10.9	2.295931	2.500236		8.9	20	
Vinyl Chloride	A	10.0	9.90	0.7004293	0.6934279		-1.0	20	
m+p Xylene	A	20.0	21.8	2.091175	2.283494		9.2	20	
o-Xylene	A	10.0	10.7	2.147289	2.303777		7.3	20	
1,2-Dichloroethane-d4	A	25.0	21.2	0.7730529	0.6544909		-15.3		
Toluene-d8	A	25.0	25.1	1.254031	1.257731		0.3		
4-Bromofluorobenzene	A	25.0	24.8	0.9311152	0.9218995		-1.0		

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CWP-TPMW-6

Laboratory:	Pace New England	Work Order:	22G0052
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B312303	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B312303-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22G0052-06
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
Acetone	100	ND	69.2	69.2	*	70 - 130
Benzene	10.0	ND	9.87	98.7		70 - 130
Bromochloromethane	10.0	ND	10.9	109		70 - 130
Bromodichloromethane	10.0	ND	10.2	102		70 - 130
Bromoform	10.0	ND	9.24	92.4		70 - 130
Bromomethane	10.0	ND	10.1	101		70 - 130
2-Butanone (MEK)	100	ND	79.2	79.2		70 - 130
Carbon Disulfide	100	ND	103	103		70 - 130
Carbon Tetrachloride	10.0	ND	9.85	98.5		70 - 130
Chlorobenzene	10.0	ND	10.5	105		70 - 130
Chlorodibromomethane	10.0	ND	9.94	99.4		70 - 130
Chloroethane	10.0	ND	10.6	106		70 - 130
Chloroform	10.0	ND	9.59	95.9		70 - 130
Chloromethane	10.0	ND	4.24	42.4	*	70 - 130
Cyclohexane	10.0	ND	11.1	111		70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	ND	7.20	72.0		70 - 130
1,2-Dibromoethane (EDB)	10.0	ND	10.6	106		70 - 130
1,2-Dichlorobenzene	10.0	ND	9.22	92.2		70 - 130
1,3-Dichlorobenzene	10.0	ND	9.55	95.5		70 - 130
1,4-Dichlorobenzene	10.0	ND	9.33	93.3		70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	ND	9.96	99.6		70 - 130
1,1-Dichloroethane	10.0	ND	10.6	106		70 - 130
1,2-Dichloroethane	10.0	ND	11.1	111		70 - 130
1,1-Dichloroethylene	10.0	ND	10.2	102		70 - 130
cis-1,2-Dichloroethylene	10.0	ND	10.2	102		70 - 130
trans-1,2-Dichloroethylene	10.0	ND	10.9	109		70 - 130
1,2-Dichloropropane	10.0	ND	11.8	118		70 - 130
cis-1,3-Dichloropropene	10.0	ND	9.47	94.7		70 - 130
trans-1,3-Dichloropropene	10.0	ND	9.12	91.2		70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CWP-TPMW-6

Laboratory:	Pace New England	Work Order:	22G0052
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B312303	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B312303-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22G0052-06
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
Ethylbenzene	10.0	ND	10.8	108		70 - 130
2-Hexanone (MBK)	100	ND	95.7	95.7		70 - 130
Isopropylbenzene (Cumene)	10.0	ND	11.2	112		70 - 130
Methyl Acetate	10.0	ND	6.32	63.2	*	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	ND	9.86	98.6		70 - 130
Methyl Cyclohexane	10.0	ND	11.0	110		70 - 130
Methylene Chloride	10.0	0.440	10.6	102		70 - 130
4-Methyl-2-pentanone (MIBK)	100	ND	101	101		70 - 130
Styrene	10.0	ND	11.0	110		70 - 130
1,1,2,2-Tetrachloroethane	10.0	ND	9.83	98.3		70 - 130
Tetrahydrofuran	10.0	ND	9.34	93.4		70 - 130
Toluene	10.0	ND	11.1	111		70 - 130
1,2,3-Trichlorobenzene	10.0	ND	6.75	67.5	*	70 - 130
1,2,4-Trichlorobenzene	10.0	ND	7.94	79.4		70 - 130
1,1,1-Trichloroethane	10.0	ND	9.60	96.0		70 - 130
1,1,2-Trichloroethane	10.0	ND	11.0	110		70 - 130
Trichloroethylene	10.0	ND	11.8	118		70 - 130
Trichlorofluoromethane (Freon 11)	10.0	ND	8.64	86.4		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	ND	11.3	113		70 - 130
Vinyl Chloride	10.0	ND	10.7	107		70 - 130
m+p Xylene	20.0	ND	22.3	111		70 - 130
o-Xylene	10.0	ND	10.8	108		70 - 130
Xylenes (total)	30.0	ND	33.1	110		0 - 200

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CWP-TPMW-6

Laboratory:	Pace New England	Work Order:	22G0052
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B312303	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B312303-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22G0052-06
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Acetone	100	71.1	71.1		2.78	30	70 - 130
Benzene	10.0	10.1	101		2.30	30	70 - 130
Bromochloromethane	10.0	10.8	108		1.29	30	70 - 130
Bromodichloromethane	10.0	10.0	100		2.17	30	70 - 130
Bromoform	10.0	9.06	90.6		1.97	30	70 - 130
Bromomethane	10.0	11.2	112		10.4	30	70 - 130
2-Butanone (MEK)	100	83.7	83.7		5.55	30	70 - 130
Carbon Disulfide	100	102	102		0.0585	30	70 - 130
Carbon Tetrachloride	10.0	10.2	102		3.98	30	70 - 130
Chlorobenzene	10.0	10.4	104		1.25	30	70 - 130
Chlorodibromomethane	10.0	10.0	100		0.702	30	70 - 130
Chloroethane	10.0	11.3	113		6.49	30	70 - 130
Chloroform	10.0	9.41	94.1		1.89	30	70 - 130
Chloromethane	10.0	4.35	43.5	*	2.56	30	70 - 130
Cyclohexane	10.0	10.9	109		1.27	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	7.17	71.7		0.418	30	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.5	105		0.950	30	70 - 130
1,2-Dichlorobenzene	10.0	9.01	90.1		2.30	30	70 - 130
1,3-Dichlorobenzene	10.0	9.34	93.4		2.22	30	70 - 130
1,4-Dichlorobenzene	10.0	9.46	94.6		1.38	30	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	9.71	97.1		2.54	30	70 - 130
1,1-Dichloroethane	10.0	10.5	105		0.570	30	70 - 130
1,2-Dichloroethane	10.0	10.8	108		2.29	30	70 - 130
1,1-Dichloroethylene	10.0	10.1	101		0.691	30	70 - 130
cis-1,2-Dichloroethylene	10.0	10.3	103		1.37	30	70 - 130
trans-1,2-Dichloroethylene	10.0	10.8	108		0.828	30	70 - 130
1,2-Dichloropropane	10.0	11.6	116		1.37	30	70 - 130
cis-1,3-Dichloropropene	10.0	9.40	94.0		0.742	30	70 - 130
trans-1,3-Dichloropropene	10.0	9.22	92.2		1.09	30	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CWP-TPMW-6

Laboratory:	Pace New England	Work Order:	22G0052
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B312303	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B312303-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22G0052-06
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	10.0	10.7	107		0.838	30	70 - 130
2-Hexanone (MBK)	100	97.3	97.3		1.67	30	70 - 130
Isopropylbenzene (Cumene)	10.0	11.0	110		1.44	30	70 - 130
Methyl Acetate	10.0	6.64	66.4	*	4.94	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	10.0	100		1.91	30	70 - 130
Methyl Cyclohexane	10.0	11.2	112		2.25	30	70 - 130
Methylene Chloride	10.0	10.5	101		0.853	30	70 - 130
4-Methyl-2-pentanone (MIBK)	100	100	100		0.497	30	70 - 130
Styrene	10.0	10.8	108		2.02	30	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.78	97.8		0.510	30	70 - 130
Tetrahydrofuran	10.0	9.25	92.5		0.968	30	70 - 130
Toluene	10.0	11.4	114		1.96	30	70 - 130
1,2,3-Trichlorobenzene	10.0	7.10	71.0		5.05	30	70 - 130
1,2,4-Trichlorobenzene	10.0	8.14	81.4		2.49	30	70 - 130
1,1,1-Trichloroethane	10.0	9.91	99.1		3.18	30	70 - 130
1,1,2-Trichloroethane	10.0	10.8	108		2.39	30	70 - 130
Trichloroethylene	10.0	11.7	117		0.595	30	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	8.57	85.7		0.813	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.0	110		2.34	30	70 - 130
Vinyl Chloride	10.0	10.6	106		0.469	30	70 - 130
m+p Xylene	20.0	22.0	110		1.27	20	70 - 130
o-Xylene	10.0	10.8	108		0.371	30	70 - 130
Xylenes (total)	30.0	32.8	109		0.972		0 - 200

Data Usability Summary Report

Site: [redacted]
Laboratory: [redacted]
SDG: [redacted]
Parameter: [redacted]
Data Reviewer: [redacted]
Peer Reviewer: [redacted]
Date: [redacted]

Samples Reviewed and Evaluation Summary

[redacted]

[redacted]

[redacted]

- [redacted]
- [redacted]

[redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

[redacted]

Overall Evaluation of Data and Potential Usability Issues

[redacted]

- [illegible]

- [illegible]

- [illegible]

- [illegible]

Data Completeness

[illegible]

- [illegible]
- [illegible]
- [illegible]

Holding Times and Sample Preservation

[illegible]

GC/MS Tunes

[illegible]

Initial and Continuing Calibrations

[illegible]

IC/ Instrument	Analyte	Average RRF	Validation Actions
[illegible]	[illegible]	[illegible]	[illegible]
Associated samples: [illegible]			

[illegible] the laboratory's [illegible]

CC ID	Analyte	%D	RRF	Validation Action
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
Associated samples: [illegible]				
[illegible]				

Blanks

[illegible]

Surrogate Recoveries

[illegible] the laboratory's acceptance limits.

LCS/LCSD Results

[illegible]

MS/MSD Results

[illegible] outside of the laboratory's acceptance criteria and the validation actions. [illegible] were within the laboratory's acceptance criteria.

Parent Sample ID	Compound	MS %R	MSD %R	MS/MSD %R Limits	Validation Action
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]		
	[illegible]	[illegible]	[illegible]		
	[illegible]	[illegible]	[illegible]		
	[illegible]	[illegible]	[illegible]		

Parent Sample ID	Compound	MS %R	MSD %R	MS/MSD %R Limits	Validation Action
MM[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] UJ [illegible] MM[illegible]
	[illegible]	[illegible]	[illegible]		[illegible]
	[illegible] D[illegible]	[illegible]	[illegible]		
[illegible]					

Internal Standards

[illegible]

Field Duplicate Results

[illegible] aqueous media is ≤30% for the RPD and <QL for the [illegible]

Analyte	TPMW-04		DUP-01		RPD (%) or AbsD (µg/L)	Validation Actions
	QL (µg/L)	Result (µg/L)	QL (µg/L)	Result (µg/L)		
[illegible]	[illegible]	[illegible] J	[illegible]	[illegible] J	[illegible]D [illegible]	[illegible]
[illegible] D[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	R[illegible]D [illegible]	
[illegible] D[illegible]	[illegible]	[illegible] J	[illegible]	[illegible] J	[illegible]D [illegible]	
[illegible]	[illegible]	[illegible] J	[illegible]	[illegible]	[illegible]D [illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	R[illegible]D [illegible]	

Sample Results and Reported Quantitation Limits

[illegible] MD[illegible] J [illegible]

[illegible]

[illegible]

Sample ID(s)	Dilution	Reason for Dilution
MM[illegible]	[illegible]	[illegible]

Target Compound Identification

□□□r□□r□□ □□r□ □ □□□

Tentatively Identified Compounds

□□□r□ □ □r□ □□ □l□ □d□□□□□d □□ □□□ □□□ □□□□ □r □□□r□□r□ □ □□□□d □□□□□□

QUALIFIED FORM 1s

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-01-~~MS/MSD~~ Sampled: 7/25/2023 10:13

Sample ID: 23G3639-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2000	80	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Benzene	ND	40	7.4	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Bromochloromethane	~~ND~~ UJ	40	11	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Bromodichloromethane	ND	20	6.3	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Bromoform	~~ND~~ UJ	40	16	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Bromomethane	~~ND~~ UJ	80	53	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
2-Butanone (MEK)	ND	800	67	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Carbon Disulfide	ND	200	62	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Carbon Tetrachloride	ND	200	6.5	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Chlorobenzene	ND	40	4.8	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Chlorodibromomethane	ND	20	8.0	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Chloroethane	ND	80	14	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Chloroform	ND	80	5.6	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Chloromethane	ND	80	20	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Cyclohexane	ND	200	71	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	200	34	µg/L	40	~~V-05, MS-07A~~	SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2-Dibromoethane (EDB)	ND	20	6.4	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2-Dichlorobenzene	ND	40	5.2	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,3-Dichlorobenzene	ND	40	5.5	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,4-Dichlorobenzene	ND	40	5.1	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	80	6.4	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,1-Dichloroethane	ND	40	5.5	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2-Dichloroethane	ND	40	12	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,1-Dichloroethylene	ND	40	5.6	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
cis-1,2-Dichloroethylene	2600	40	5.6	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
trans-1,2-Dichloroethylene	ND	40	6.9	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2-Dichloropropane	ND	40	7.7	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
cis-1,3-Dichloropropene	ND	20	6.5	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
trans-1,3-Dichloropropene	ND	20	5.7	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,4-Dioxane	~~ND~~ UJ	2000	720	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Ethylbenzene	ND	40	8.8	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
2-Hexanone (MBK)	ND	400	48	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Isopropylbenzene (Cumene)	ND	40	6.0	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Methyl Acetate	~~ND~~ UJ	40	24	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	40	6.8	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Methyl Cyclohexane	ND	40	6.2	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Methylene Chloride	ND	200	7.1	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	400	53	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Styrene	ND	40	6.0	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,1,2,2-Tetrachloroethane	ND	20	5.5	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Tetrachloroethylene	ND	40	6.7	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Toluene	ND	40	8.9	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2,3-Trichlorobenzene	~~ND~~ UJ	200	14	µg/L	40	~~MS-07A~~	SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,2,4-Trichlorobenzene	~~ND~~ UJ	40	12	µg/L	40	~~MS-07A~~	SW-846 8260D	7/27/23	7/29/23 9:06	MFF

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-01-~~MS/MSD~~ Sampled: 7/25/2023 10:13

Sample ID: 23G3639-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	40	6.0	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,1,2-Trichloroethane	ND	40	7.6	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Trichloroethylene	ND	40	7.0	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Trichlorofluoromethane (Freon 11)	ND	80	6.2	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	40	8.3	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Vinyl Chloride	4400	80	9.5	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF
Xylenes (total)	ND	40	40	µg/L	40		SW-846 8260D	7/27/23	7/29/23 9:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	100	70-130		7/29/23	9:06
Toluene-d8	100	70-130		7/29/23	9:06
4-Bromofluorobenzene	84.7	70-130		7/29/23	9:06

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-01~~-MS/MSD~~ Sampled: 7/25/2023 10:13

Sample ID: 23G3639-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			40			SW-846 8260D	7/27/23	7/29/23 9:06	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: DUP-01 Sampled: 7/25/2023 08:00

Sample ID: 23G3639-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.1	50	2.0	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
cis-1,2-Dichloroethylene	21	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
trans-1,2-Dichloroethylene	0.37	1.0	0.17	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: DUP-01 Sampled: 7/25/2023 08:00

Sample ID: 23G3639-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Trichloroethylene	1.2	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Vinyl Chloride	20	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/29/23 4:14
Toluene-d8	98.9	70-130		7/29/23 4:14
4-Bromofluorobenzene	87.0	70-130		7/29/23 4:14

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: DUP-01 Sampled: 7/25/2023 08:00

Sample ID: 23G3639-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 4:14	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPMW-04 Sampled: 7/25/2023 10:14

Sample ID: 23G3639-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.4	50	2.0	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
cis-1,2-Dichloroethylene	19	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
trans-1,2-Dichloroethylene	0.54	1.0	0.17	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPMW-04 Sampled: 7/25/2023 10:14

Sample ID: 23G3639-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Trichloroethylene	0.92	1.0	0.17	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Vinyl Chloride	19	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 4:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/29/23 4:41
Toluene-d8	99.2	70-130		7/29/23 4:41
4-Bromofluorobenzene	87.2	70-130		7/29/23 4:41

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPMW-04 Sampled: 7/25/2023 10:14

Sample ID: 23G3639-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 4:41	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPM-03 Sampled: 7/25/2023 10:50

Sample ID: 23G3639-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF

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

Project Location: Ithaca, Tompleins County, NY | Sample Description: | Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPM-03 | Sampled: 7/25/2023 10:50

Sample ID: 23G3639-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	102	70-130		7/29/23	5:07
Toluene-d8	99.1	70-130		7/29/23	5:07
4-Bromofluorobenzene	87.0	70-130		7/29/23	5:07

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPM-03 Sampled: 7/25/2023 10:50

Sample ID: 23G3639-04

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 5:07	MFF

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Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-03 Sampled: 7/25/2023 11:06

Sample ID: 23G3639-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF

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Project Location: Ithaca, Tompleins County, NY | Sample Description: | Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-03 | Sampled: 7/25/2023 11:06

Sample ID: 23G3639-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 5:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		7/29/23 5:34
Toluene-d8	102	70-130		7/29/23 5:34
4-Bromofluorobenzene	86.1	70-130		7/29/23 5:34

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-03 Sampled: 7/25/2023 11:06

Sample ID: 23G3639-05

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 5:34	MFF

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Project Location: Ithaca, Tompleins County, NY | Sample Description: | Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPM-02 | Sampled: 7/25/2023 11:20

Sample ID: 23G3639-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF

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Project Location: Ithaca, Tompleins County, NY | Sample Description: | Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPM-02 | Sampled: 7/25/2023 11:20

Sample ID: 23G3639-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	104	70-130		7/29/23	6:00
Toluene-d8	100	70-130		7/29/23	6:00
4-Bromofluorobenzene	84.1	70-130		7/29/23	6:00

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Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPM-02 Sampled: 7/25/2023 11:20

Sample ID: 23G3639-06

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 6:00	MFF

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Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-02 Sampled: 7/25/2023 11:47

Sample ID: 23G3639-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Bromochloromethane	ND UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.85	µg/L	1	V-05	SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-02 Sampled: 7/25/2023 11:47

Sample ID: 23G3639-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		7/29/23 6:27
Toluene-d8	99.5	70-130		7/29/23 6:27
4-Bromofluorobenzene	83.3	70-130		7/29/23 6:27

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-02 Sampled: 7/25/2023 11:47

Sample ID: 23G3639-07

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 6:27	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MW-14 Sampled: 7/25/2023 11:51

Sample ID: 23G3639-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Tetrachloroethylene	0.60	1.0	0.17	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MW-14 Sampled: 7/25/2023 11:51

Sample ID: 23G3639-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Trichloroethylene	0.50	1.0	0.17	µg/L	1	J	SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 6:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	102	70-130		7/29/23	6:54
Toluene-d8	101	70-130		7/29/23	6:54
4-Bromofluorobenzene	86.9	70-130		7/29/23	6:54

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MW-14 Sampled: 7/25/2023 11:51

Sample ID: 23G3639-08

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 6:54	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-04 Sampled: 7/25/2023 12:22

Sample ID: 23G3639-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-04 Sampled: 7/25/2023 12:22

Sample ID: 23G3639-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	103	70-130		7/29/23	7:20
Toluene-d8	100	70-130		7/29/23	7:20
4-Bromofluorobenzene	86.8	70-130		7/29/23	7:20

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: MMW-04 Sampled: 7/25/2023 12:22

Sample ID: 23G3639-09

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 7:20	MFF

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

Project Location: Ithaca, Tompleins County, NY | Sample Description: | Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPMW-06 | Sampled: 7/25/2023 12:45

Sample ID: 23G3639-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF

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

Project Location: Ithaca, Tompleins County, NY | Sample Description: | Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPMW-06 | Sampled: 7/25/2023 12:45

Sample ID: 23G3639-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 7:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/29/23 7:47
Toluene-d8	100	70-130		7/29/23 7:47
4-Bromofluorobenzene	85.0	70-130		7/29/23 7:47

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TPMW-06 Sampled: 7/25/2023 12:45

Sample ID: 23G3639-10

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 7:47	MFF

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TRIP BLANK Sampled: 7/25/2023 00:00

Sample ID: 23G3639-11

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Bromochloromethane	~~ND~~ UJ	1.0	0.28	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Bromomethane	~~ND~~ UJ	2.0	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.85	µg/L	1	~~V-05~~	SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,4-Dioxane	~~ND~~ UJ	50	18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF

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Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TRIP BLANK Sampled: 7/25/2023 00:00

Sample ID: 23G3639-11

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/27/23	7/29/23 2:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		7/29/23 2:54
Toluene-d8	99.1	70-130		7/29/23 2:54
4-Bromofluorobenzene	88.5	70-130		7/29/23 2:54

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

Project Location: Ithaca, Tompleins County, NY Sample Description: Work Order: 23G3639

Date Received: 7/26/2023

Field Sample #: TRIP BLANK Sampled: 7/25/2023 00:00

Sample ID: 23G3639-11

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	7/27/23	7/29/23 2:54	MFF

QC NONCONFORMANCE DOCUMENTATION

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Calibration:	2200537	Instrument:	GCMSVOA3
		Calibration Date:	8/8/2022 10:18:58AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
1,3-Dichlorobenzene	1.193097	12.1			20	
1,4-Dichlorobenzene	1.270795	8.8			20	
trans-1,4-Dichloro-2-butene	0.239735	14.1			20	
Dichlorodifluoromethane (Freon 12)	0.4341094	10.1			20	
1,1-Dichloroethane	0.787926	6.1			20	
1,2-Dichloroethane	0.4276246	10.4			20	
1,1-Dichloroethylene	0.6503172	6.4			20	
cis-1,2-Dichloroethylene	0.6864345	9.7			20	
trans-1,2-Dichloroethylene	0.6178868	7.3			20	
Dichlorofluoromethane (Freon 21)	0.8403159	5.9			20	
1,2-Dichloropropane	0.306328	10.1			20	
1,3-Dichloropropane	0.4974963	14.4			20	
2,2-Dichloropropane	0.6088295	8.7			20	
1,1-Dichloropropene	0.5473735	11.5			20	
cis-1,3-Dichloropropene	0.4734604	12.7			20	
trans-1,3-Dichloropropene	0.4080538	16.5			20	
Diethyl Ether	0.3713617	11.2			20	
Difluorochloromethane (Freon 22)	0.5720824	6.4			20	
Diisopropyl Ether (DIPE)	1.558552	9.0			20	
1,4-Dioxane	4.731593E-03	10.9			20	
Ethanol	1.036708E-02	17.7			20	
Ethyl Acetate	0.6506099	5.8			20	
Ethylbenzene	2.549064	12.6			20	
Hexachlorobutadiene	0.2852952	17.9			20	
2-Hexanone (MBK)	0.2843475	16.4			20	
Iodomethane	0.5420061	18.8			20	
Isopropylbenzene (Cumene)	2.395221	12.5			20	
p-Isopropyltoluene (p-Cymene)	1.842122	9.9			20	
Methyl Acetate	0.7088624	9.4			20	
Methyl tert-Butyl Ether (MTBE)	1.412808	8.2			20	
Methyl Cyclohexane	0.3308172	13.9			20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Instrument ID:	GCMSVOA3	Calibration:	2200537
Lab File ID:	C22V20931.D	Calibration Date:	08/08/22 10:18
Sequence:	S091282	Injection Date:	07/28/23
Lab Sample ID:	S091282-CCV1	Injection Time:	23:48

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100	88.4	0.1820924	0.1610673		-11.5	20	
Benzene	A	10.0	11.3	1.667645	1.887934		13.2	20	
Bromochloromethane	A	10.0	12.2	0.3793018	0.4623482		21.9	20	*
Bromodichloromethane	A	10.0	10.4	0.3940258	0.41129		4.4	20	
Bromoform	A	10.0	8.26	0.5234936	0.4325998		-17.4	20	
Bromomethane	A	10.0	14.9	0.3079598	0.4586369		48.9	20	*
2-Butanone (MEK)	A	100	105	0.2634095	0.2771379		5.2	20	
Carbon Disulfide	A	100	107	1.250483	1.334156		6.7	20	
Carbon Tetrachloride	A	10.0	8.86	0.528229	0.4682599		-11.4	20	
Chlorobenzene	A	10.0	10.7	1.57638	1.685011		6.9	20	
Chlorodibromomethane	A	10.0	9.70	0.3363907	0.3261947		-3.0	20	
Chloroethane	A	10.0	10.2	0.3601205	0.3672182		2.0	20	
Chloroform	A	10.0	10.9	0.7591359	0.8247549		8.6	20	
Chloromethane	A	10.0	10.7	0.7095398	0.7592823		7.0	20	
Cyclohexane	A	10.0	10.4	0.7080121	0.7395272		4.5	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	7.76	0.1649304	0.1280308		-22.4	20	*
1,2-Dibromoethane (EDB)	A	10.0	10.9	0.299296	0.3272128		9.3	20	
1,2-Dichlorobenzene	A	10.0	10.3	1.213634	1.251121		3.1	20	
1,3-Dichlorobenzene	A	10.0	10.5	1.193097	1.256611		5.3	20	
1,4-Dichlorobenzene	A	10.0	10.5	1.270795	1.329676		4.6	20	
Dichlorodifluoromethane (Freon 12)	A	10.0	10.8	0.4341094	0.4702469		8.3	20	
1,1-Dichloroethane	A	10.0	10.4	0.787926	0.8215034		4.3	20	
1,2-Dichloroethane	A	10.0	10.1	0.4276246	0.4305222		0.7	20	
1,1-Dichloroethylene	A	10.0	9.68	0.6503172	0.6291909		-3.2	20	
cis-1,2-Dichloroethylene	A	10.0	10.3	0.6864345	0.7045986		2.6	20	
trans-1,2-Dichloroethylene	A	10.0	9.66	0.6178868	0.5967255		-3.4	20	
1,2-Dichloropropane	A	10.0	11.3	0.306328	0.3466663		13.2	20	
cis-1,3-Dichloropropene	A	10.0	10.7	0.4734604	0.5073292		7.2	20	
trans-1,3-Dichloropropene	A	10.0	9.99	0.4080538	0.4075387		-0.1	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Instrument ID:	GCMSVOA3	Calibration:	2200537
Lab File ID:	C22V20931.D	Calibration Date:	08/08/22 10:18
Sequence:	S091282	Injection Date:	07/28/23
Lab Sample ID:	S091282-CCV1	Injection Time:	23:48

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	100	85.0	4.731593E-03	4.021276E-03		-15.0	20
Ethylbenzene	A	10.0	10.3	2.549064	2.614812		2.6	20
2-Hexanone (MBK)	A	100	95.4	0.2843475	0.2711274		-4.6	20
Isopropylbenzene (Cumene)	A	10.0	9.53	2.395221	2.281626		-4.7	20
Methyl Acetate	A	10.0	8.37	0.7088624	0.5936547		-16.3	20
Methyl tert-Butyl Ether (MTBE)	A	10.0	9.38	1.412808	1.324889		-6.2	20
Methyl Cyclohexane	A	10.0	11.0	0.3308172	0.3630324		9.7	20
Methylene Chloride	A	10.0	10.0	0.6427786	0.6424924		-0.04	20
4-Methyl-2-pentanone (MIBK)	A	100	95.7	0.4112112	0.3936535		-4.3	20
Styrene	A	10.0	9.33	1.683114	1.570649		-6.7	20
1,1,2,2-Tetrachloroethane	A	10.0	9.62	0.9177436	0.8833026		-3.8	20
Tetrachloroethylene	A	10.0	11.1	0.2808079	0.3119532		11.1	20
Toluene	A	10.0	11.2	1.195157	1.342148		12.3	20
1,2,3-Trichlorobenzene	A	10.0	8.78	0.6638408	0.5831043		-12.2	20
1,2,4-Trichlorobenzene	A	10.0	8.56	0.6791191	0.5809994		-14.4	20
1,1,1-Trichloroethane	A	10.0	10.5	0.6322124	0.6644808		5.1	20
1,1,2-Trichloroethane	A	10.0	10.9	0.2797054	0.305701		9.3	20
Trichloroethylene	A	10.0	11.0	0.2768359	0.3034326		9.6	20
Trichlorofluoromethane (Freon 11)	A	10.0	9.66	0.6391431	0.6176302		-3.4	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.3	0.377547	0.388714		3.0	20
Vinyl Chloride	A	10.0	11.8	0.5221577	0.6165299		18.1	20
m+p Xylene	A	20.0	19.6	1.99021	1.948581		-2.1	20
o-Xylene	A	10.0	9.51	2.094658	1.9915		-4.9	20
1,2-Dichloroethane-d4	A	25.0	24.6	0.5629535	0.5527093		-1.8	
Toluene-d8	A	25.0	26.6	1.188132	1.265186		6.5	
4-Bromofluorobenzene	A	25.0	24.0	0.8894447	0.853485		-4.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MMW-01

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B347197	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B347197-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23G3639-01
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
Acetone	4000	ND	3200	80.1		70 - 130
Benzene	400	ND	413	103		70 - 130
Bromochloromethane	400	ND	440	110		70 - 130
Bromodichloromethane	400	ND	373	93.3		70 - 130
Bromoform	400	ND	287	71.8		70 - 130
Bromomethane	400	ND	518	129		70 - 130
2-Butanone (MEK)	4000	ND	3980	99.6		70 - 130
Carbon Disulfide	4000	ND	3850	96.3		70 - 130
Carbon Tetrachloride	400	ND	317	79.3		70 - 130
Chlorobenzene	400	ND	380	95.0		70 - 130
Chlorodibromomethane	400	ND	354	88.5		70 - 130
Chloroethane	400	ND	381	95.2		70 - 130
Chloroform	400	ND	396	98.9		70 - 130
Chloromethane	400	ND	444	111		70 - 130
Cyclohexane	400	ND	383	95.8		70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	400	ND	273	68.3	*	70 - 130
1,2-Dibromoethane (EDB)	400	ND	384	96.0		70 - 130
1,2-Dichlorobenzene	400	ND	357	89.3		70 - 130
1,3-Dichlorobenzene	400	ND	361	90.2		70 - 130
1,4-Dichlorobenzene	400	ND	364	90.9		70 - 130
Dichlorodifluoromethane (Freon 12)	400	ND	405	101		70 - 130
1,1-Dichloroethane	400	ND	392	98.0		70 - 130
1,2-Dichloroethane	400	ND	354	88.4		70 - 130
1,1-Dichloroethylene	400	ND	368	91.9		70 - 130
cis-1,2-Dichloroethylene	400	2620	2950	84.4		70 - 130
trans-1,2-Dichloroethylene	400	ND	362	90.4		70 - 130
1,2-Dichloropropane	400	ND	401	100		70 - 130
cis-1,3-Dichloropropene	400	ND	336	84.0		70 - 130
trans-1,3-Dichloropropene	400	ND	335	83.7		70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MMW-01

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B347197	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B347197-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23G3639-01
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
1,4-Dioxane	4000	ND	2670	66.8	*	70 - 130
Ethylbenzene	400	ND	354	88.4		70 - 130
2-Hexanone (MBK)	4000	ND	3300	82.5		70 - 130
Isopropylbenzene (Cumene)	400	ND	331	82.8		70 - 130
Methyl Acetate	400	ND	287	71.8		70 - 130
Methyl tert-Butyl Ether (MTBE)	400	ND	331	82.7		70 - 130
Methyl Cyclohexane	400	ND	386	96.4		70 - 130
Methylene Chloride	400	ND	362	90.4		70 - 130
4-Methyl-2-pentanone (MIBK)	4000	ND	3320	83.0		70 - 130
Styrene	400	ND	320	79.9		70 - 130
1,1,2,2-Tetrachloroethane	400	ND	338	84.6		70 - 130
Tetrachloroethylene	400	ND	397	99.3		70 - 130
Toluene	400	ND	396	99.0		70 - 130
1,2,3-Trichlorobenzene	400	ND	255	63.8	*	70 - 130
1,2,4-Trichlorobenzene	400	ND	248	62.0	*	70 - 130
1,1,1-Trichloroethane	400	ND	391	97.7		70 - 130
1,1,2-Trichloroethane	400	ND	375	93.7		70 - 130
Trichloroethylene	400	ND	386	96.5		70 - 130
Trichlorofluoromethane (Freon 11)	400	ND	372	93.1		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	400	ND	372	93.1		70 - 130
Vinyl Chloride	400	4370	4740	91.5		70 - 130
Xylenes (total)	1200	ND	1010	84.1		0 - 200

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MMW-01

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B347197	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B347197-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23G3639-01
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Acetone	4000	3050	76.3		4.85	30	70 - 130
Benzene	400	394	98.6		4.66	30	70 - 130
Bromochloromethane	400	406	102		8.04	30	70 - 130
Bromodichloromethane	400	356	88.9		4.83	30	70 - 130
Bromoform	400	264	65.9	*	8.57	30	70 - 130
Bromomethane	400	482	121		7.04	30	70 - 130
2-Butanone (MEK)	4000	3630	90.8		9.20	30	70 - 130
Carbon Disulfide	4000	3680	92.0		4.55	30	70 - 130
Carbon Tetrachloride	400	307	76.7		3.33	30	70 - 130
Chlorobenzene	400	371	92.7		2.45	30	70 - 130
Chlorodibromomethane	400	339	84.7		4.39	30	70 - 130
Chloroethane	400	360	90.1		5.50	30	70 - 130
Chloroform	400	366	91.6		7.66	30	70 - 130
Chloromethane	400	409	102		8.17	30	70 - 130
Cyclohexane	400	371	92.8		3.18	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	400	257	64.2	*	6.19	30	70 - 130
1,2-Dibromoethane (EDB)	400	358	89.4		7.12	30	70 - 130
1,2-Dichlorobenzene	400	350	87.5		2.04	30	70 - 130
1,3-Dichlorobenzene	400	344	86.0		4.77	30	70 - 130
1,4-Dichlorobenzene	400	327	81.8		10.5	30	70 - 130
Dichlorodifluoromethane (Freon 12)	400	393	98.2		3.01	30	70 - 130
1,1-Dichloroethane	400	368	92.0		6.32	30	70 - 130
1,2-Dichloroethane	400	342	85.6		3.22	30	70 - 130
1,1-Dichloroethylene	400	354	88.6		3.66	30	70 - 130
cis-1,2-Dichloroethylene	400	2790	43.7	*	5.67	30	70 - 130
trans-1,2-Dichloroethylene	400	351	87.8		2.92	30	70 - 130
1,2-Dichloropropane	400	380	95.1		5.22	30	70 - 130
cis-1,3-Dichloropropene	400	321	80.3		4.50	30	70 - 130
trans-1,3-Dichloropropene	400	317	79.2		5.52	30	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MMW-01

Laboratory:	Pace New England	Work Order:	23G3639
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Clinton West Plaza CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B347197	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B347197-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23G3639-01
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
1,4-Dioxane	4000	2880	72.1		7.69	30	70 - 130
Ethylbenzene	400	344	86.0		2.75	30	70 - 130
2-Hexanone (MBK)	4000	3170	79.3		3.96	30	70 - 130
Isopropylbenzene (Cumene)	400	318	79.4		4.19	30	70 - 130
Methyl Acetate	400	268	66.9	*	7.07	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	400	304	75.9		8.58	30	70 - 130
Methyl Cyclohexane	400	373	93.2		3.38	30	70 - 130
Methylene Chloride	400	344	86.1		4.87	30	70 - 130
4-Methyl-2-pentanone (MIBK)	4000	3160	79.1		4.87	30	70 - 130
Styrene	400	314	78.4		1.90	30	70 - 130
1,1,2,2-Tetrachloroethane	400	323	80.7		4.72	30	70 - 130
Tetrachloroethylene	400	384	95.9		3.48	30	70 - 130
Toluene	400	380	95.0		4.12	30	70 - 130
1,2,3-Trichlorobenzene	400	266	66.6	*	4.29	30	70 - 130
1,2,4-Trichlorobenzene	400	264	66.1	*	6.40	30	70 - 130
1,1,1-Trichloroethane	400	358	89.5		8.76	30	70 - 130
1,1,2-Trichloroethane	400	370	92.5		1.29	30	70 - 130
Trichloroethylene	400	365	91.3		5.54	30	70 - 130
Trichlorofluoromethane (Freon 11)	400	360	89.9		3.50	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	400	372	92.9		0.215	30	70 - 130
Vinyl Chloride	400	4480	27.1	*	5.59	30	70 - 130
Xylenes (total)	1200	994	82.8		1.56	200	0 - 200

Appendix D

Ithaca West LLC
626 East Main St.
Middletown, NY 10940

September 28, 2023

Ms. Brianna Scharf, Project Manager
NYS Department of Environmental Conservation
Division of Environmental Remediation, BURE
625 Broadway
Albany, NY 12233-7017

RE NYSDEC Site Number 755015
Clinton West Plaza
609-625 W. Clinton St.
Ithaca, NY 14850

Dear Ms. Scharf,

Attached is the response to the recent Property Owner Survey request for the above referenced property, along with a completed building permit for renovations completed in a part of the building by one the tenants. As your office is aware, we also had work completed to the parking area on the north side of the building, which was the subject of a letter to your office by Marc Maser, PE dated June 26, 2023. Along with that correspondence was the completion comments of the most recent Periodic Inspection Report, that more fully details the parking lot work and approval for same.

At this point we are awaiting the next Periodic Review Report due date, which we were informed could be as frequent as every 5 years in the future. Please advise if there is any additional information that is needed.

Sincerely,

William Buchalter,
Ithaca West, LLC
845-343-7966

Cc. Marc Maser, P.E.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation, Bureau of Technical Support
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

8/15/2023

Ithaca West LLC
626 East Main Street
Middleton, NY 10940
vistagroup626@gmail.com

Re: Property Owner Survey: Site Management Periodic Review
Parcel: 79-6-8.2
Site Name: Clinton West Plaza
Site No.: 755015
Site Address: 609-625 West Clinton Street

Ithaca, NY 14850

Dear Property Owner:

This letter and attached survey have been mailed to you because you are the listed property owner (or their contact) on which a State Superfund site exists that is currently in the Site Management (SM) phase of remediation. This letter is meant to serve as an informative reminder to you and any tenants, occupants or users of the property that sites in active Site Management must undergo a periodic progress review to ensure that the selected remedy continues to be protective. This process and resulting report, referred to as the Periodic Review Report (PRR), documents the implementation of site specific SM requirements. Section 6.3(b) of DER-10 Technical Guidance for Site Investigation and Remediation (see "IV. Reference Documents" in the attached) provides guidance regarding the information that is included in a typical PRR. Additionally, the site referenced may be comprised of multiple tax parcels with different owners. This letter only pertains to the portion of the site that exists on property which is under your direct ownership. To assist the NYSDEC in its periodic review, please respond, sign and date the attached survey (Enclosure 1 "Institutional and Engineering Controls - Property Owner Survey") by October 29, 2023.

Site Management is defined in regulation at 6 NYCRR 375-1.2(at), and in Chapter 6 of DER-10 (see also "III. Helpful Definitions" in the attached). SM may be governed by multiple individual documents (e.g., an Operation, Maintenance, and Monitoring Plan; a Soil Management Plan; etc.) or under the umbrella of one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you respond to this survey, please include the enclosed form (Enclosure 1) which documents that, to the best of your knowledge, all Site Management requirements that pertain to the site on your property are being met. The Institutional Controls (ICs) and Engineering Controls (ECs) certification portion of the form should be completed, signed and returned to the NYSDEC. If you cannot verify that all SM requirements are being met, please provide adequate information in response so that actions may be taken to restore the level of protection intended. Instructions for completing the attached forms are included as Enclosure 2 "Survey Instructions."

The survey form should be submitted in either paper or electronic format. Any supporting documents or information (e.g., collected data, reports, copy of current deed) should be submitted in electronic format only. These documents and electronic submissions should be sent to:

Brianna Scharf, Project Manager.
New York State Department of Environmental Conservation
Division of Environmental Remediation, BURE
625 Broadway
Albany, NY 12233-7017

Phone number: 518-402-5987. E-mail: brianna.scharf@dec.ny.gov

Finally, as the state and condition of your property may be influenced by tenants or others users, please share the information contained in this letter and survey so that all controls put in place will provide the greatest level of protection of public health and the environment.

Thank you for your cooperation and assistance.

Sincerely,

Brianna Scharf, Project Manager
NYSDEC

Enclosures

ec: Brianna Scharf, Project Manager
Sarah Saucier, Section Chief

Enclosure 1
Institutional and Engineering Controls - Property Owner Survey

NEW YORK STATE | Department of Environmental Conservation

Site Details **Box 1**

Site No. **755015**

Site Name Clinton West Plaza

Site Address: 609-625 West Clinton Street Zip Code: 14850
City/Town: Ithaca
County: Tompkins
Site Acreage: 2.7

Reporting Period: September 29, 2020 to September 29, 2023

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	X	
If you answered YES to questions 2, 3 or 4, include documentation with this form.		
5. Is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7. Are all Institutional Controls (ICs) in place and functioning as designed?	X	

X X William Buchalter
Signature of Property Owner

9/27/23
Date

SITE NO. 755015 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
79-6-8.2	Ithaca West LLC	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan

The Environmental Easement was recorded by site owner (Ithaca West LLC) with the Tompkins County Clerk's office on May 26, 2016 as instrument number #2016-05729.

A series of ICs is required by the ROD (NYSDEC 2010a)1 to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and restricted residential (portions of the property zoned for each use by the City of Ithaca) uses only. Adherence to these ICs on the site is required by an Environmental Easement and will be implemented under a SMP. These ICs are

- Compliance with an Environmental Easement and SMP.
- All ECs must be operated and maintained as specified in SMP.
- All ECs on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater and indoor air monitoring must be performed as defined in the SMP.
- Data and information pertinent to site management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

ICs identified in an Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The site has a series of ICs in the form of site restrictions. Adherence to these ICs will be required by an Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted residential or commercial use (as zoned for such use by the City of Ithaca) provided that the long-term ECs and ICs included in this SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted residential use without additional remediation and amendment of an Environmental Easement, as approved by the NYSDEC.
- All future activities on the property that will potentially disturb remaining contaminated material must be conducted in accordance with this SMP.
- The use of the groundwater for a source of potable or process water is restricted without treatment rendering it safe for intended use.
- The potential for VI must be evaluated for any buildings developed in the area noted on Figure 2, and any potential impacts that are identified must be monitored or mitigated.
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
79-6-8.2	Vapor Mitigation Fencing/Access Control Monitoring Wells

Cover System: Subsurface soil was not disturbed at the site during the implementation of the remedial action per the ROD. Exposure to remaining contamination in soil at the site is prevented by the existing soil cover that remains at the site. Additionally, asphalt pavement, concrete-covered sidewalks, and concrete building slabs prevent incidental contact or ingestion of subsurface soil at the majority of the site.

Sub-slab Depressurization System: Exposure to indoor air impacted with VOCs within the site building is prevented by a SSDS, which was installed in the site building by the NYSDEC in February 2011 as an IRM. The system serves to reduce the pressure beneath the building slab by venting potentially impacted soil vapc to outside of the building. The SSDS is located in the southwest corner of the tenant laundry facility at 609 West Clinton Street. The operations and maintenance of the SSDS is the responsibility of the site owner.

Box 5

Periodic Review Report (PRR) Survey Statements

For each Institutional or Engineering control listed in Boxes 3 and/or 4, by checking "YES" below I believe all of the following statements to be true:

(a) the Institutional Control(s) and/or Engineering Control(s) employed at this site remain unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control; and

(d) if a Site Management Plan (SMP) exists, nothing has occurred that would constitute a violation or failure to comply with the SMP for this Control.

YES	NO
X	☐

William Buchalter

Signature of Property Owner

9/27/23

Date

Enclosure 2
Survey Instructions

I. Verification of Site Details (Box 1 and Box 2):
Answer the YES/NO questions in the Verification of Site Details Section. The Property Owner may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)
Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Property Owner should petition the Department separately to request approval to remove the control.

In Box 5, complete the certification for all components, as applicable, by checking the corresponding YES/NO checkbox.

If you cannot respond "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why a "YES" response could not be rendered. Note that this survey form should be submitted even if an IC or EC cannot be certified at this time.

III. Helpful Definitions
"Change of use" means the erection of any structure on a site, the paving of a site for use as a roadway or parking lot, the creation of a park or other recreational facility on a site, any activity that is likely to disrupt or expose contamination or increase direct human or environmental exposure, or any other conduct that will or may tend to prevent or significantly interfere with a proposed, ongoing, or completed remedial program.

"Site management" means the activities undertaken as the last phase of the remedial program at a site which continue after a certificate of completion is issued. Site management is conducted in accordance with a site management plan, which identifies and implements the institutional and engineering controls required for a site, as well as any necessary monitoring and/or operation and maintenance of the remedy.

IV. Reference Documents

DER-10	http://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf
Part 375-2.2(a)	http://www.dec.ny.gov/regs/4373.html#15089

MASER
ENGINEERING
110 N. MAIN ST., PMB 127
HORSEHEADS, NY 14845

June 26, 2023

Mr. Brianna Scharf, Project Manager
New York State Department of Environmental Conservation
Remedial Bureau E, Section A
Division of Environmental Remediation
625 Broadway 12th Floor
Albany, New York 12233-7017

RE: NYSDEC Site Number 755015
Clinton West Plaza
609-625 W. Clinton St.
Ithaca, NY 14850

Dear Ms. Scharf:

Enclosed please find the revised second Periodic Review Report for Clinton West/Ithaca West, Site No. 755015. Appended to this letter are the comments and responses which are reflected in the revised report.

If you have any questions or require additional information, please contact me at 607-377-7990 or at maser@maser-ae.com.

Sincerely,

Marc Maser

Marc Maser, P.E.

ec. (All via email)
William Buchalter, VistaGroup
Phillip Migliore, VistaGroup
Ronald S. Kossar, Esq., Representing Ithaca West, LLC
Margaret A. Sheen, Esq., NYSDEC
Sarah Saucier, NYSDEC
Johnathan Robinson, NYSDOH
Nathan Kranes, P.G., TRC

Enc.

CITY OF ITHACA - BUILDING PERMIT

This form is deemed an application until approved and upon approval is a valid building permit

This side for Building Dept use only

Project Address: 609 Clinton Street W — Permit #: 41714

Received: 7/19/2021 — Issued: 8/11/2021 — Renewed: — Denied:

Expires: 2 years after issue/renewal date. — Plans to GIS: No — Completed: — By: MA

Insp: MA — HUD Code: 437 — Project: Alteration 2 — Ent. By: RF

Constr. Class: — Use Class: B — Sprinkler System: N/A — Assembly Space:

APPROVALS:

Zoning Review	☒ 8/11/2021
ECC	☒ 8/11/2021
SPR	☒ 8/11/2021

VARIANCES / APPEALS:

PERMIT APPROVAL:

This building permit is issued for the work described in this application, submitted plans, specifications and documents. These materials have been reviewed and found to be sufficient to issue a building permit. This permit is limited to the submitted work. The review does not address all aspects of applicable codes, ordinances and regulations. It shall be the duty of every person performing work on the permitted project to comply with all applicable codes, ordinances and regulations.

Michael L. Aiken

For the Building Division

PROJECT NAME:

- BUILDING PERMIT CONDITIONS -

(see attached)

CITY OF ITHACA - BUILDING PERMIT APPLICATION

108 East Green Street, Ithaca, New York 14850 Telephone: 607-274-6508 Fax: 607-274-6521

Building Permit Application must be submitted Mon.–Fri. 8AM–10AM or by appointment. This side to be completed by applicant.

PROJECT INFORMATION:

Project Street Address: 609 Clinton Street W

Tax Parcel: 79.-6-8.2

Project Name:

Change of Occupancy:

Existing Use: Commercial

Proposed Use: Commercial

Project Type: Alteration 2

Project Location: Foyer, Sanctuary and hallways.

Estimated Cost: $250,000.00 Permit Fee: $1,750.00 Receipt #: 65422

: His Tabernacle Family Church Inc

PROJECT DESCRIPTION: This is a church expansion project. The organization will be expanding the foyer and sanctuary size as per blueprints attached.

PROPERTY INFORMATION:

Zone: R-2b;B-2a Historic Dist/Site: Flood Zone:

Energy Code Compliance: Attached Docs:

APPLICANT/OWNER INFORMATION:

Applicant: Chad Spencer
Address: 16 Level Acres Dr. Horseheads, NY 14845
City/St: Horseheads, NY 14845
Email: PastorChad@histabernacle.com
Tel: 607-857-2082

Owner: Ithaca West LLC
Address: 626 East Main Street
City/St: Middletown, NY 10940
Email:
Tel: 845-343-7966

Insurance must be valid throughout the operation, required insurance to be provided by:

APPLICANT'S DECLARATION:

I am the owner or owners' agent of the premises listed in this application. I hereby apply for approval to perform the work described in this application, attached plans, specifications and other documents. I will comply with all provisions of the applicable ordinances, codes, and regulations in performing this work whether specified herein or not. Any amendments to the scope of work, plans, specifications or other documents will be submitted to the Building Division for approval prior to performing the actual work. Furthermore, I give permission to enter and inspect all work for compliance by the appropriate inspectors.

By typing my name below, I certify I have read and understand the above paragraph.

Applicant Signature: *Chad Spencer* Date: 7/19/2021

CITY OF ITHACA

108 East Green Street Ithaca, New York 14850-5690
BUILDING DIVISION - 4TH Floor
Telephone: 607 274-6508 Fax: 607 274-6521

1-2-

7/19/2021

Receipt#65422

His Tabernacle Family Church Inc
Chad Spencer
P.O. Box 189
Horseheads NY 14845

Code	Qty	Description	Permit #	Price	Extended Price
A8020-2555	1	Building Permit 609 Clinton Street W	41714	$1,750.00	$1,750.00
				Total Price	$1,750.00

Date	Check #	Payment
7/19/2021	8661	$1,750.00
	Total Payment	**$1,750.00**
	Balance Due	