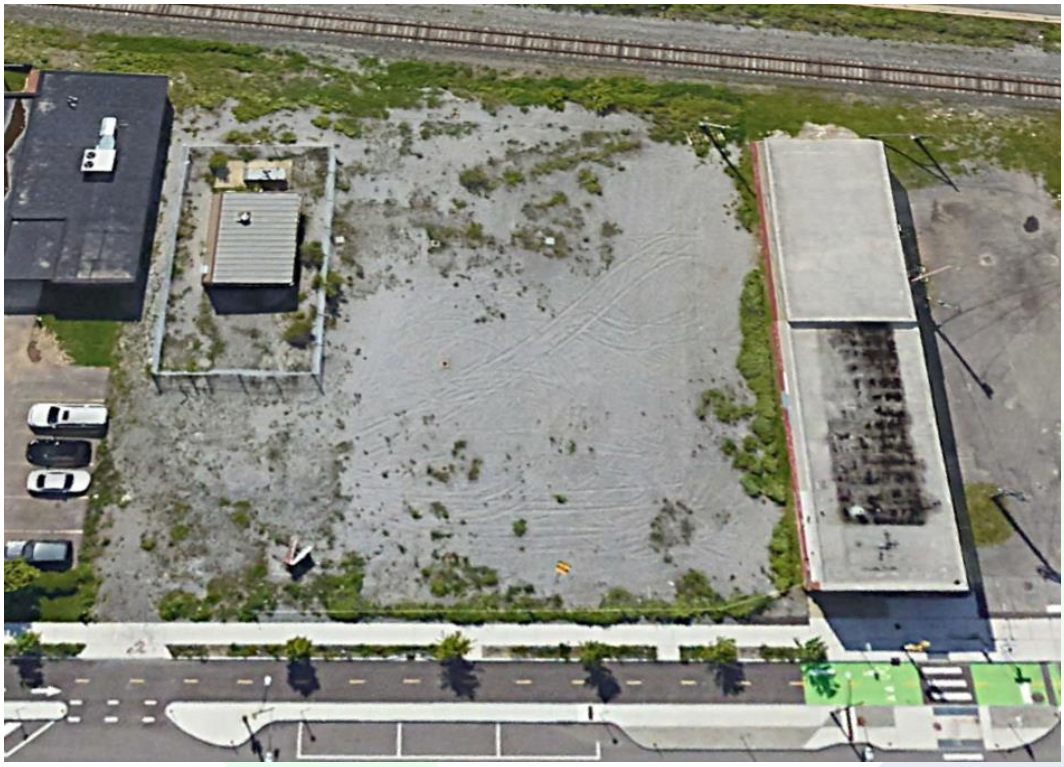
PERIODIC REVIEW REPORT
JUNE 2020 – MAY 2023

CHEM-CORE SITE
BUFFALO, NEW YORK 14213

NYSDEC Site No. 915176
Work Assignment No. D009812-04



Prepared for:

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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NOVEMBER 2023

TRC Project No. 386554

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Executive Summary

Category	Summary/Results
Engineering Control (ECs)	None – N/A
Institutional Control (ICs)	• Site Management Plan (SMP) – February 2022 • Groundwater Use Restriction • Cover System • Land Use Restriction • Building Use Restriction • Monitoring Plan • IC/EC Plan
Site Classification	Class 4 – continued Site management consisting of operation, maintenance and/or monitoring.
Site Management Plan	SMP – February 2022
Certification/Reporting Period	The SMP requires inspections and monitoring every 5th quarter including a Groundwater Monitoring Report summary memorandum, followed by a Periodic Review Report (PRR) which is to be prepared and submitted every three years.
Inspection	**Frequency**
Site-Wide Inspections	Inspection conducted every 5th quarter and following severe weather events
Groundwater Monitoring Wells and Piezometers	Inspection conducted every 5th quarter and following severe weather events
Monitoring	**Frequency**
Water Level Monitoring of Monitoring Wells and Piezometers	Water level monitoring every 5th quarter or as directed otherwise by NYSDEC
Groundwater Monitoring	Groundwater sample collection and analysis every 5th quarter, or as directed otherwise by NYSDEC
Soil Vapor Intrusion Evaluation for New Buildings on the Property	As needed
Prior PRR Recommendations	No prior PRR Recommendations
Site Management Activities	Four Site visits were performed, two rounds of groundwater sampling and water level measurements were collected during this reporting period (June 2020 – May 2023). • 06/22/2021 and 06/24/2021 – Collected groundwater samples from twelve locations along the Black Rock Canal vicinity and on Site. All samples collected were submitted to Eurofins TestAmerica (Eurofins) for lab analysis.

	○ During the groundwater sampling event, head space monitoring was performed using a photoionization detector (PID) and no measurable organic vapors were detected. ○ During the groundwater sampling event, water level measurements were collected. ○ Fifth quarter Site inspection conducted alongside sampling event. • 03/09/2022 – Site visit performed to inspect former treatment system and prepare inventory report. • 10/28/2022 and 10/31/2022 – Collected groundwater samples from ten locations along the Black Rock Canal vicinity and on Site. All samples collected were submitted to Pace Analytical Services (Pace) for lab analysis. ○ During the groundwater sampling event, head space monitoring was performed using a photoionization detector (PID) and no measurable organic vapors were detected. ○ During the groundwater sampling event, water level measurements were collected. ○ Fifth quarter Site inspection conducted alongside sampling event • 01/11/2023 – Site visit performed to verify building's condition.
Significant Findings or Concerns	• Between the two sampling events, development of the adjacent commercial property, 1360 Niagara Street, caused MW-08S and MW-08D to no longer be accessible for the October 2022 sampling event. • Concentrations of volatile organic compounds (VOCs), including: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Butanone, 2-Hexanone, Acetone, Benzene, Chloroethane, cis-1,2-Dichloroethene, Ethylbenzene, Tetrachloroethene, Toluene, trans-1,1-Dichloroethene, Trichloroethene, Vinyl Chloride, and Xylene exceeded their corresponding class GA values as of the October 2022 analysis. ○ Monitoring wells with the most VOCs above the guidance values were MW-20, MW-21, MW-22 (east to west line segment of the gravel area) followed by MW-06 (north of MW-20, along the western boundary) and then MW-05 (north side of neighboring building).
Recommendations	1. Decommission monitoring wells MW-08D and MW-08S, injection galleries/risers IG-01, IG-02, and IG-03, and extraction wells GEW-01 and GEW-02. 2. Remove MW-08D and MW-08S from the Monitoring Plan. 3. Schedule a NYS licensed professional land surveyor to survey all wells part of the Site Monitoring Plan. 4. Develop updated groundwater flow maps based on the next round of groundwater monitoring measurements. 5. Develop a SMP addendum/revision to reflect the 2023 change in property owner, and recommended changes.
Cost Evaluation	The total cost of the Site management activities by TRC during this reporting period was $102,054. This cost includes engineering and equipment costs (laboratory services were provided by call-out). It should be noted that this total does not include call-out costs, or any additional costs incurred by the NYSDEC in support of the project.

1.0 Introduction

This Periodic Review Report (PRR) has been prepared for the Chem-Core Site, located at 1382 Niagara Street, Buffalo , Erie County, New York (the Site). This PRR covers the period between June 2020 through May 2023. This PRR was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) Department of Environmental Remediation (DER) Work Assignment (WA) No. D009812-04 Notice to Proceed dated February 27, 2020, the NYSDEC-approved amended Scope of Work dated July 20, 2020 (WA No. D009812-04.12) and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC DER-10). This PRR discusses the Site management activities performed by TRC Engineers, Inc. (TRC), and others during the referenced reporting period. A Site summary and applicable remedial program information are summarized below.

Site Information			
Site Name:	Chem-Core Site	**NYSDEC Site No:**	915176
Site Location:	1382 Niagara Street, Buffalo, Erie County, New York	**Remedial Program:**	State Superfund Program
Site Type:	Chemical Wholesaler	**Classification:**	4
Parcel Identification(s):	88.81-1-5 (Erie County Tax Map)	**Parcel Acreage:**	0.4647
Selected Remedy:	Excavation and Pump Treatment System; Groundwater Well/Water-Level Monitoring; Community Protection/Air Monitoring Plan	**Site COC(s):**	• Tetrachloroethene (PCE) • Trichloroethene (TCE) • Vinyl Chloride • Tetrachloroethane
Current Remedial Program Phase:	Post-Remedial Action Site Monitoring; Site Management	**Institutional Controls:**	• Land and groundwater use restrictions • Monitoring and maintenance of Engineering Controls (ECs) • Periodic certification of Institutional Controls (ICs)/ECs
Post-Remediation Monitoring and Sampling Frequency:	• Site Inspection: Every 5th Quarter (and after severe weather events) • Groundwater Monitoring: Every 5th Quarter (and after severe weather events) • Water Level Monitoring of Monitoring Wells and Piezometers: Every 5th Quarter, or as directed otherwise by NYSDEC • Soil Vapor Intrusion Evaluation for New Buildings on the Property: As needed	**Engineering Controls:**	There are no engineering controls currently in place at the Site. It should be noted that a groundwater monitoring program is underway at the Site. All locatable and functional groundwater monitoring wells at the Site will be included in the groundwater sampling program.
Monitoring Locations:	• 12 Groundwater Monitoring Wells; Recommending network be reduced to 10 Groundwater Monitoring Wells	**Required Reporting:**	• Data Submittal: Following Sample Event • Inspection Submittal: Following Inspection Event • PRR: Every Three Years

1.1 Site Location, Ownership, and Description

The Chem-Core Site is the location of a former chemical wholesale facility located at 1382 Niagara Street in the City of Buffalo, Erie County, NY. Situated on a historically industrial corridor, the Site is in close proximity to

residential neighborhoods to the east and a Rail corridor to the west with both the Interstate I-190 highway and the Black Rock Canal (which leads from Lake Erie to the Niagara River) farther to the west. The Site is occupied by a 1,000 square foot groundwater treatment system building on approximately 0.5 acres. All other facilities and buildings associated with the historic Site use (chemical wholesaler) have been demolished and removed. West Delevan Avenue, at the north end of the Site, dead-ends at the rail line and is used as a parking area/driveway. A large storm sewer line passes beneath this street and discharges into the Black Rock Canal. South of the Site is the former location of the Garrett Leather Corporation. This adjacent property has a warehouse building with enclosed loading docks at the north end abutting the Site. A majority of the Site is gravel stone lot with an equipment building stationed near the southwest corner enclosed within chain-link fencing with a small parking stall located to the southeast accessible via curb-cut to a packed gravel area more stable than the rest of the Property. A Site Location Map and a Site Layout Map are included as **Figure 1** and **Figure 2**, respectively.

The subsurface in the vicinity of the Site consists of three layers with bedrock at the bottom, a silty clay layer above the bedrock, and a fill layer at the top. On the Site, the thickness of the fill layer ranges from 1 to 8 feet below ground surface (bgs). The thickness of the silty clay layer ranges from 9 to 17.5 feet bgs. The top of the bedrock surface was found at depths ranging from 12.8 feet bgs to 30 feet bgs.

Based on the record of decision (ROD), the primary water bearing unit identified at the Site is the unconfined water table aquifer present in the bedrock. The groundwater table at the Site was found to be at approximately 30 feet bgs. Based on water level data obtained during the remedial investigation (RI), groundwater at the Site flows generally towards the Black Rock Canal. However, a southwesterly component in the groundwater flow was observed in the shallow bedrock zone. Groundwater flow in the shallow bedrock zone emanating from the Site is impeded by a wedge of lacustrine silts and clays that drape over the sloping bedrock surface beneath the I-190 corridor. These confining sediments induce a southwesterly component in the groundwater flow. For this reason, the plume of dissolved groundwater contamination has migrated southwest from the Site.

The Site has been used for commercial operations since its original development in the 1930s. Initial operation at the Site involved supplying acids to metal fabrication industries. In the early 1930s, operations included a chemical handling facility, with several business and commercial tenants operating from rented portions of the former Site building. From the review of an aerial photograph taken in 1938, the on-Site building appeared to be similar to the condition that existed prior to demolition and no significant changes appear to have been made since 1938. During the 1950s, operations involved sales of chlorinated solvents for dry cleaning industries. In the 1970s and 1980s, the company sold chlorinated degreasing solvents. Another large percentage of sales involved inert materials such as diatomaceous earth, Fullers earth, and bentonite clay. The company also marketed propylene glycol and glycerin to the hand lotion industry and primary alcohol to the printing industry.

Until 1980, Chem-Core received diatomaceous earth via a rail spur located directly west of the building. During the 1970s and until 1988, the company received bulk liquid materials at a receiving station on the north side of the building. The materials were transferred into 55-gallon drums by a gravity operated drum filling machine connected to the truck with a hose. The company had a United States Environmental Protection Agency (USEPA) hazardous waste identification number and was classified as a Resource Conservation and Recovery Act (RCRA) small quantity generator. Chem-Core ceased its operations at the Site around 1999.

1.2 Investigation/Remedial History

There are no documented releases or disposal of hazardous waste into the subsurface at the Site. It is believed that improper handling of chemicals in the past has caused contamination of soils and groundwater at the Site.

The Erie County Department of Environment and Planning prepared a "Hazardous Waste Site Profile Report" in 1985 that concluded no hazardous waste was disposed of at the Site. In 1988, NYSDEC conducted a Phase I Investigation at the Site and recommended conducting a Phase II Investigation. In 1990, NYSDEC delisted the Site from the Registry based on the determination that no hazardous wastes were present.

As part of a bankruptcy agreement, Chem-Core completed a Phase I Environmental Site Assessment for the Site in March 1997. As a result of the recommendations from the Phase I, a Phase II Limited Site Evaluation was completed in June 1997, which included 24 soil borings and 15 monitoring wells, situated both on-Site and off-Site. Soil samples collected from these borings were analyzed for volatile organic compounds (VOCs), metals, and Toxicity Characteristic Leaching Procedure (TCLP) parameters, and some of which indicated the presence of hazardous waste. The hazardous constituents identified consisted primarily of Tetrachloroethene (PCE), 1,1,1-trichloroethane, and trichloroethene (TCE). A study completed by the NYSDEC verified soil contamination at depth under the facility and under parking areas directly to the north and south of the facility. Installation and sampling of monitoring wells also indicated that the groundwater under the facility was contaminated. Water level measurements from these wells and from nearby Black Rock Channel suggests a hydraulic connection between the two. The Site was listed on the Registry of Inactive Hazardous Waste Sites as a Class 2 site in 2000.

A RI was performed in 2002. The results of the RI indicated that PCE and TCE were detected most frequently and at highest concentrations in subsurface soil samples. PCE was detected as high as 38,000 parts per million (ppm) and TCE was detected as high as 8 ppm. The highest PCE concentrations were generally found in close proximity to the former PCE handling and storage areas. VOCs were detected at low concentrations in sediment samples collected from Black Rock Canal but were below the cleanup goals for sediment. Based upon the Site history and groundwater data, the Site does not appear to be the source of contamination found in canal sediments. No VOCs were detected in surface water.

Predominantly, VOCs such as PCE and its breakdown products (TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC)) have been found in groundwater at the Site. PCE was found as high as 21,000 parts per billion (ppb) and TCE was found as high as 16,000 ppb. Cis-1,2-DCE was found as high as 30,000 ppb. The concentration of contaminants in groundwater decreased rapidly southwest of the Site and approached Class GA groundwater standards at the most distant monitoring wells. A detailed description of the RI activities and findings can be found in the RI Report completed in 2002.

A feasibility study (FS) was undertaken in 2003, and a ROD was subsequently issued later that year. The remedy selected in the ROD included the demolition of the buildings, excavation of contaminated soils and implementation of a groundwater pump and treatment systems with a five-year review. A pilot study of enhanced bioremediation of groundwater for off-Site groundwater contamination was included in the ROD.

The remedial design was subsequently completed in August 2005 and the remedial action (RA) construction was undertaken between April 2006 and August 2007. The RA consisted of the following major elements:

- Asbestos abatement and demolition of an existing two-story building including concrete slab and foundations, with off-Site disposal of debris;
- Pre-excavation delineation borings to determine final limits of excavation;
- Excavation of designated area, off-Site disposal of excavated material, and backfilling of the excavations;
- Installation of groundwater extraction and monitoring systems including extraction wells, underground piping, and monitoring well network;
- Construction, startup, and testing of the groundwater extraction and treatment system;
- Installation of a Site-wide stone cover and perimeter security fencing; and
- Turnover of the fully operational, fully functional groundwater extraction and treatment system to the NYSDEC for long-term operation.

After approximately four years of groundwater extraction and treatment system operation, active groundwater extraction was discontinued in October 2011, and the treatment system was decommissioned.

To address the residual groundwater contamination at the Site, a series of nutrient injections were performed using three injection galleries, IW-01, IW-02, and IW-03, to enhance the naturally occurring biological activity in groundwater and enhance the biodegradation of VOCs. The nutrient injection events were performed in August 2012, August-September 2013, and February 2015. In August 2015, an evaluation of the effectiveness of the injections and continued on-Site and off-Site monitoring indicated that biodegradation of VOCs was occurring at the Site. A summary of the results of these injections is provided in the letter report "Evaluation of Post-Treatment Groundwater Data for Samples Collected August 2015", by Empire Geo Services, dated January 14, 2016. A copy of this letter report is included in the Site Management Plan (SMP).

On-Site and off-Site groundwater continues to be monitored on a periodic basis to measure effectiveness of the remedy and the progress of natural attenuation of groundwater contamination.

As specified in the ROD, the goals for the remedial program were established through the remedy selection process stated in 6 NYCRR Part 375-1.10. The overall remedial goal is to meet all Standard Criteria and Guidance (SCGs) and to be protective of human health and the environment. In addition, the ROD stated that at a minimum, the remedy selected must eliminate or mitigate all significant threats to public health and/or the environment presented by the hazardous waste disposed of at the Site through proper application of scientific and engineering principles.

The goals selected for this Site, as presented in the ROD, are:

- Provide for the attainment, to the extent practicable, of NYSDEC Class GA groundwater standards at the Site;
- Reduce, control, or eliminate, to the extent practicable, off-Site migration of groundwater that does not attain NYSDEC Class GA groundwater standards;
- Reduce, control, or eliminate, to the extent practicable, human exposures to VOCs in soil, groundwater, or indoor air; and
- Reduce, control, or eliminate, to the extent practicable, migration of VOCs into the Black Rock Canal.

A Site history, including the dates and descriptions of significant events and a Custodial Record detailing known and available Site reports, are included in **Appendix A**. Additional details are presented in the SMP as well as historic Site documents.

1.3 Remaining Contamination

1.3.1 Groundwater

Groundwater contaminated with VOCs remains at the Site. **Figure 2** shows the approximate locations of the former and existing extraction, injection, and monitoring wells, and groundwater piezometers. **Figure 3** illustrates the location of the monitoring wells and a summary of the VOC exceedances from three historic rounds of groundwater monitoring (2013 – 2015). **Figure 4** illustrates the location of the monitoring wells and a summary of the VOC exceedances from the last two rounds of groundwater monitoring (June 2021 and October 2022). More detailed analysis and historic sample trends in concentration are included within **Appendix B**. Data trends for the Site contaminants of concern (COCs) listed above from June 2021 to October 2022 are detailed below. Cis-1,2-DCE is not a Site COC, but is included in trend analysis below because it is a PCE breakdown product.

- MW-04D had no COC exceedances above Class GA groundwater standards.
- MW-04S had no COC exceedances above Class GA groundwater standards.
- MW-05 had exceedances of cis-1,2-DCE and VC above Class GA groundwater standards for both sampling events; however, concentrations of both compounds decreased. There were no other COC exceedances above Class GA groundwater standards.
  - Cis-1,2-DCE decreased from 210 ug/L in June 2021 to 25 ug/L in October 2022.
  - VC decreased from 600 ug/L in June 2021 to 550 ug/L in October 2022.
- MW-06 had exceedances of cis-1,2-DCE and VC above Class GA groundwater standards for both sampling events; however, concentrations of both compounds decreased. There were no other COC exceedances above Class GA groundwater standards.
  - Cis-1,2-DCE decreased from 360 ug/L in June 2021 to 200 ug/L in October 2022.
  - VC decreased from 55 ug/L in June 2021 to 23 ug/L in October 2022.
- MW-07 had no COC exceedances above Class GA groundwater standards.
- MW-08D had no COC exceedances above the Class GA groundwater standards during the June 2021 sampling event. The well was not accessible during the October 2022 sampling event.
- MW-08S had a PCE concentration of 26 ug/L during the June 2021 sampling event which exceeds the Class GA standard of 5 ug/L. There were no other COC exceedances. The well was not accessible during the October 2022 sampling event.
- MW-09 was non-detect for all COCs during both sampling events; however, the minimum detection limit (MDL) for vinyl chloride for both sampling events was 4 ug/L which is above the Class GA groundwater standard of 2 ug/L.
- MW-10 was non-detect for all COCs for both sampling events.
- MW-20 had exceedances of cis-1,2-DCE, PCE, TCE, and VC for the June 2021 sampling event, and exceedances of cis-1,2-DCE and VC for the October 2022 sampling event. 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) was non-detect for the June 2021 sampling event, but the MDL exceeded the Class GA groundwater standard. TCE was non-detect for the October 2022 sampling event, but the MDL exceeded the Class GA groundwater standard. All COC concentrations decreased.

- Cis-1,2-DCE decreased from 1,300 ug/L in June 2021 to 16 ug/L in October 2022.
- PCE decreased from 240 ug/L in June 2021 to 3.8 ug/L in October 2022.
- TCE decreased from 130 ug/L in June 2021 to less than 10 ug/L in October 2022.
- VC decreased from 120 ug/L in June 2021 to 72 ug/L in October 2022.

- MW-21 had exceedances of cis-1,2-DCE, PCE, and TCE for the June 2021 sampling event, and exceedances of cis-1,2-DCE, PCE, TCE and VC for the October 2022 sampling event. 1,1,2,2-PCA and VC were non-detect for the June 2021 sampling event, but the MDLs exceeded the Class GA groundwater standard. 1,1,2,2-PCA was non-detect for the October 2022 sampling event, but the MDL exceeded the Class GA groundwater standard. Concentrations of cis-1,2-DCE, PCE, and TCE decreased, while the concentration of VC increased.
  - Cis-1,2-DCE decreased from 60,000 ug/L in June 2021 to 30,000 ug/L in October 2022.
  - PCE decreased from 12,000 ug/L in June 2021 to 380 ug/L in October 2022.
  - TCE decreased from 15,000 ug/L in June 2021 to 3,200 ug/L in October 2022.
  - VC increased from less than 2,000 ug/L in June 2021 to 3,400 ug/L in October 2022.
- MW-22 had exceedances of cis-1,2-DCE, TCE, and VC for the June 2021 sampling event, and exceedances of cis-1,2-DCE, PCE, TCE and VC for the October 2022 sampling event. The concentrations of these COCs increased between the two events.
  - 1,1,2,2-PCA was non-detect for both events.
  - Cis-1,2-DCE increased from 18 ug/L in June 2021 to 47 ug/L in October 2022.
  - PCE increased from less than 5 ug/L in June 2021 to 33 ug/L in October 2022.
  - TCE increased from 3.6 ug/L in June 2021 to 71 ug/L in October 2022.
  - VC increased from 37 ug/L in June 2021 to 110 ug/L in October 2022.

1.3.2 Sediment and Surface Water

Investigations conducted at the Site concluded that surface water in the Black Rock Canal has not been impacted by the migration of Site COCs. Semi-volatile organic compounds (SVOCs) and polychlorinated biphenyls (PCBs) were detected above SCGs in sediment samples collected from the Canal; however, investigations concluded that these constituents are not attributed to the Site.

1.3.3 Soil Vapor

Due to the existing/residual soil and groundwater contamination, there exists a potential for vapor intrusion into future Site buildings. Prior to the construction of any enclosed buildings at the Site, which are intended for occupancy, the potential for vapor intrusion must be evaluated to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, a vapor intrusion mitigation system may be installed as an element of the building foundation without first conducting an investigation. The mitigation system should include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting a vapor intrusion investigation or installing a mitigation system, a Work Plan shall be developed and submitted to the NYSDEC and New York State Department of Health (NYSDOH) for approval. The Work Plan will be developed in accordance with the most recent versions of NYSDEC DER-10 “Technical Guidance for Site Investigation and Remediation”, and NYSDOH “Guidance for Evaluating Vapor Intrusion in

the State of New York". Measures to be employed to mitigate potential vapor intrusion shall be evaluated, selected, designed, installed, and maintained based on the vapor intrusion evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (non-validated) vapor intrusion sampling data shall be forwarded to the NYSDEC and NYSDOH for review. Following validation, the final data shall be transmitted, along with a recommendation for follow-up actions. Vapor intrusion sampling activities, results, evaluations, and follow-up actions shall also be summarized in the PRR.

1.4 Regulatory Requirements/Remedial Controls

The main remedial goals selected for the Site, as identified in the RODs, are:

- Provide for the attainment, to the extent practicable, of NYSDEC Class GA groundwater standards at the Site;
- Reduce, control, or eliminate, to the extent practicable, off-Site migration of groundwater that does not attain NYSDEC Class GA groundwater standards;
- Reduce, control, or eliminate, to the extent practicable, human exposures to VOCs in soil, groundwater, or indoor air; and
- Reduce, control, or eliminate, to the extent practicable, migration of VOCs into the Black Rock Canal.

In addition, the remedy includes monitoring of the designated on- and off-Site locations with respect to the remaining contamination. These monitoring elements include the long-term monitoring of the groundwater well network to determine trends in groundwater quality and to determine whether an upgradient source of groundwater contamination exists.

2.0 Institutional and Engineering Control Plan Compliance

2.1 Introduction

Institutional and engineering controls (ICs and ECs) are needed to protect human health and the environment from the residual contamination present in soil and groundwater beneath the Site. This section describes the procedures for managing the ICs and ECs at the Site. The ICs and ECs are components of the SMP, and revisions to the SMP are subject to approval by NYSDEC.

NYSDEC's DER-10 outlines the requirements for the phases of the remediation process. Among these requirements are the ICs and ECs that must be followed upon completion of the remedy and completed under the SMP.

2.2 Institutional Controls

The ICs at the Site are necessary so that residual contaminated material remains undisturbed. Current and future Site owners will be required to perform soil characterization and disposal/reuse in accordance with NYSDEC regulations if residual contaminated soil is disturbed and/or excavated.

The ICs required by the SMP refer to non-physical mechanisms designed to:

- Identify the allowable use or development of the Site;
- Limit human exposure to Site contaminants;
- Prevent actions that would threaten the effectiveness of a remedy at or pertaining to this Site; and
- Implement, maintain, and monitor ECs.

The ICs for the Site are:

- The Property is subject to the Deed Restriction;
- Unless prior written approval by NYSDEC is first obtained, where contamination remains at the Property subject to the provisions of the SMP, there shall be no disturbance or excavation of the Property which results or may result in an increased threat to human health or the environment as a result of exposure to soils;
- No person shall disturb, remove, or otherwise interfere with the installation, use, operations, and maintenance of any elements of the Remedy, including but not limited to the programs described in the SMP, unless in each instance they first obtain a written waiver of such prohibition from NYSDEC;
- The remedy was designed to be protective for the following use: Commercial and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iii). Any use for purposes other than Commercial and Industrial without the written waiver of such prohibition by NYSDEC may result in an increased threat to human health or the environment;
- No person shall use the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from NYSDEC. Use of the groundwater without appropriate treatment may result in an increased threat to human health or the environment;

- It is a violation of 6 NYCRR 375-1.11(b) to use the Property in a manner inconsistent with the Deed Restriction;
- The Site shall be (and/or remain) registered in the Hazardous Waste Site Registry;
- Compliance with the SMP by the Grantor and the Grantor's successors and assigns is required;
- All controls must be operated and maintained as specified in the SMP;
- All controls on the Property must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to the Site must be reported at the frequency and in a manner defined in the SMP.

Institutional controls may not be discontinued without approval of NYSDEC; specifically, ICs identified in the deed restriction may not be discontinued without an amendment to or extinguishment of the deed restriction.

2.3 Engineering Controls

There are no engineering controls currently in place at the Site. It should be noted that a groundwater monitoring program is underway at the Site. The groundwater monitoring program consists of collection and analysis of groundwater samples on a routine basis to evaluate remedy progress and verify decreasing concentrations of contamination. Groundwater monitoring activities will continue, as determined by NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Details of the groundwater monitoring program are discussed in **Section 3.0**.

2.3.1 Criteria for Completion of Remediation/Termination of Engineering Controls

Remedial processes are considered completed when the effectiveness of the monitoring program indicates that the remedy has achieved the remedial action objectives identified by the ROD or other post-remedial decision documents. The framework for determining when remedial processes are complete is provided in Section 6.5 of NYSDEC's DER-10, Technical Guidance for Site Investigation and Remediation.

3.0 Monitoring and Sampling Plan Compliance

The SMP was prepared to manage remaining on-Site contamination and to ensure that the remedy remains effective by restricting Site use, Site development, and soil movement on the property. The table below shows the SMP-specified monitoring and sampling activities for the Site and indicates the dates those activities were completed for this PRR:

Summary of SMP Site Monitoring and Sampling Plan

Site Management Activity	Frequency[1]	Location(s)	Analytical Method[2]	Completion Date(s)
Groundwater	Every Fifth Quarter	MW-04D MW-04S MW-05 MW-06 MW-07 MW-08D MW-08S MW-09 MW-10 MW-20 MW-21 MW-22	• SW-846 Method 8260B for VOCs.[3] • Results evaluated against TOGS 1.1.1 Class GA Groundwater Values.	June 2021 and October 2022
Water Levels	Coincide With Groundwater Events	Same as above	• Not Applicable (N/A)	June 2021 and October 2022
Soil Vapor Intrusion	As needed	N/A	• EPA Method TO-15	N/A

Notes:
[1] The sampling frequency will be as indicated unless otherwise specified by NYSDEC.
[2] Additional analytical parameters may be required under DER-10 for compliance with the Site cleanup objectives.
[3] SMP specifies that VOCs are to be analyzed through method SW-846 Method 8260B. Since the release of the SMP, this method has been replaced by SW-846 Method 8260C and then again by SW-846 Method 8260D. June 2021 samples were analyzed through SW-846 Method 8260C, and October 2022 samples were analyzed through SW-846 Method 8260D.
(US)EPA – United States Environmental Protection Agency
VOCs – Volatile organic compounds

3.1 Site Inspection

TRC conducted Site inspections during June 2021 and October 2022 in accordance with the SMP. These Site inspections were conducted to document the overall Site conditions, status of the groundwater monitoring system components, including inspections of conditions of monitoring wells, and the Site. Additional Site visits were performed in March 2022 and January 2023 to confirm the conditions of the former treatment system, including building and components.

A summary of the Site inspections is presented below:

Summary of Site Activities and Site Monitoring and Sampling
June 2020 to May 2023

Site Management Activity	Summary of Results	Maintenance/ Corrective Measure
Sitewide Inspection	During the October 2022 inspection it was noted that the well cap and protective casing for MW-08D and MW-08S appeared to have been broken off at the ground surface and was presumed buried during parking lot asphalt work or seasonal plowing.	Monitoring wells MW-08D and MW-08S should be decommissioned in accordance with NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy, and the wells should be formally removed from the groundwater monitoring plan and figures.

3.2 Groundwater Monitoring Summary

3.2.1 Groundwater Hydrology

On June 22-24, 2021 and October 30-31, 2022, all functional wells were gauged for depth to groundwater to evaluate groundwater flow directions using monitoring well survey data. The Site monitoring wells are screened in the silty clay/bedrock and bedrock hydrogeologic unit. Head space monitoring was also performed using a PID upon opening each monitoring well in coordination with the groundwater sampling event. The groundwater gauging and elevation measurements can be found in **Appendix C**. A summary of the hydrogeologic information is presented below:

October 2022 Hydrogeologic Summary

Number of Gauged Wells	Hydrogeologic Units	Hydrogeologic Strata	Monitoring Wells
10*	2	Silty Clay/Bedrock and Bedrock	MW-04D, MW-04S, MW-05, MW-06, MW-07, MW-09,

			MW-10, MW-20, MW-21, MW-22
Groundwater Elevation Range			
Lowest groundwater elevation[1]: 566.7 ft AMSL (MW-04D) Highest groundwater elevation[1]: 579.45 ft AMSL (MW-06)			
Inferred Groundwater Flow Direction			
Southwest[2]			

Notes:
ft AMSL – Feet above mean sea level
[1] – Measured from top of casings
[2] – To be confirmed following recommended land survey activity
* – Monitoring wells MW-08S and MW-08D could not be located during Site visit

3.2.2 Groundwater Gauging and Sampling

TRC conducted two fifth-quarter groundwater sampling events during the reporting period. TRC collected groundwater samples from twelve on-Site monitoring wells utilizing standard low-flow sampling techniques on June 22-24, 2021 and ten monitoring wells on October 30-31, 2022; MW-08S and MW-08D were found to be inaccessible during the October 2022 Site inspection. Low-flow groundwater sampling was performed in accordance with TRC's June 2020 Generic Field Activities Plan (FAP), and documentation logs can be found in **Appendix C**. June 2021 groundwater samples and 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 Labs for analysis of target compound list (TCL) VOCs via SW-846 method 8260C. October 2022 groundwater samples and QA/QC samples, collected at the frequencies specified in TRC's July 2020 Generic QAPP, were submitted to Eurofins TestAmerica for analysis of target compound list (TCL) VOCs via SW-846 method 8260D.

A complete table with well construction details is included in **Appendix C**. A summary of the groundwater sampling information and pertinent well details for each well is presented below:

Summary of Groundwater Monitoring and Sampling Activities
June 2021 and October 2022

Well ID	Monitoring Well Details				Groundwater Sampling Event		
	Northing	Easting	Screen Zone (ft. bgs)	Unit Screened	DTW (ft. below TOC)	Analytes	Notes
MW-04D	1064882.864	1064042.039	35.00 – 45.00 [2]	Silty Clay/ Bedrock	29.6 (2021)	VOCs	DTB[1]: 50.7 ft. bgs
					31.6 (2022)	VOCs	DTB[2]: 45.0 ft. bgs
MW-04S	1064882.016	1064046.794	30.30 – 40.30 [2]	Silty Clay/ Bedrock	25.1 (2021)	VOCs	DTB[1]: 34.0 ft. bgs
					26.7 (2022)	VOCs	DTB[2]: 40.3 ft. bgs

Summary of Groundwater Monitoring and Sampling Activities
June 2021 and October 2022

Well ID	Monitoring Well Details				Groundwater Sampling Event		
	Northing	Easting	Screen Zone (ft. bgs)	Unit Screened	DTW (ft. below TOC)	Analytes	Notes
MW-05	1064926.553	1063864.570	32.40 – 42.40 [2]	Silty Clay/ Bedrock	22.5 (2021)	VOCs	DTB[1]: 34.4 ft. bgs
					23.0 (2022)	VOCs	DTB[2]: 42.4 ft. bgs
MW-06	1064832.232	1063752.372	28.00 – 38.00 [2]	Silty Clay/ Bedrock	14.3 (2021)	VOCs	DTB[1]: 34.1 ft. bgs
					12.9 (2022)	VOCs	DTB[2]: 38.0 ft. bgs
MW-07	1064762.937	1063737.645	29.65 – 39.65 [2]	Silty Clay/ Bedrock	18.5 (2021)	VOCs	DTB[1]: 34.1 ft. bgs
					14.7 (2022)	VOCs	DTB[2]: 39.7 ft. bgs
MW-08D	1064444.677	1063735.802	34.70 – 44.70 [1]	Silty Clay/ Bedrock	15.1 (2021)	VOCs	DTB[1]: 44.7 ft. bgs
					NM (2022)	NS	NM
MW-08S	1064443.284	1063740.854	14.60 – 24.60 [1]	Silty Clay/ Bedrock	13.7 (2021)	VOCs	DTB[1]: 24.6 ft. bgs
					NM (2022)	NS	NM
MW-09	1064781.803	1063597.075	10.70 – 20.70 [2]	Silty Clay/ Bedrock	8.1 (2021)	VOCs	DTB[1]: 20.0 ft. bgs
					10.8 (2022)	VOCs	DTB[2]: 20.7 ft. bgs
MW-10	1064868.721	1063624.929	12.30 – 52.60 [2]	Silty Clay/ Bedrock	9.9 (2021)	VOCs	DTB[1]: 41.7 ft. bgs
					12.3 (2022)	VOCs	DTB[2]: 52.6 ft. bgs
MW-20	1064756.340	1063705.580	55.00 – 65.00 [2]	Bedrock	21.7 (2021)	VOCs	DTB[1]: 47.5 ft. bgs
					24.3 (2022)	VOCs	DTB[2]: 65.0 ft. bgs
MW-21	1064752.630	1063740.730	51.00 – 61.00 [2]	Bedrock	23.7 (2021)	VOCs	DTB[1]: 48.8 ft. bgs
					25.9 (2022)	VOCs	DTB[2]: 61.0 ft. bgs
MW-22	1064743.3	1063842.25	51.00– 61.00 [2]	Bedrock	24.8 (2021)	VOCs	DTB[1]: 48.4 ft. bgs
					27.2 (2022)	VOCs	DTB[2]: 61.0 ft. bgs

Notes:
DTW – Depth to water.
DTB – Depth to bottom.
ft. bgs – Feet below ground surface.
TOC – Top of casing.
NM – Not measured.
NS – Not sampled.
[1] – Based upon Jun. 2021 field measurements to TOC.
[2] – Based upon Oct. 2022 field measurements to TOC.

3.2.3 Groundwater Sample Results

Groundwater analytical data for VOCs can be found in **Table 1**. The Data Usability Summary Reports (DUSR) can be found in **Appendix B**. Summary tables of the June 2021 and October 2022 groundwater analytical results for all VOCs is presented below:

Exceedances Summary of Laboratory Analytical Results in June 2021 Groundwater				
Constituent	**SCGs***	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
VOCs				
1,1,1-Trichloroethane	5	ND – 3,500	MW-21	3/12
1,1-Dichloroethane	5	ND – 1,100	MW-21	5/12
1,1-Dichloroethene	5	ND – 21	MW-20	1/12
1,2-Dichloroethane	0.6	ND – 5.8	MW-22	1/12
1,2-Dichloropropane	1	ND – 33	MW-22	1/12
2-Butanone	50	ND – 16,000	MW-06	1/12
2-Hexanone	50	ND – 390	MW-06	1/12
Acetone	50	ND – 6,000	MW-06	1/12
Benzene	1	ND – 6.1	MW-22	2/12
Chloroethane	5	ND – 120	MW-22	2/12
Chloromethane	5	ND – 60,000	MW-21	5/12
Methyl-tert-butyl ether	10	ND – 24	MW-20	1/12
Tetrachloroethene	5	ND – 12,000	MW-21	3/12
Toluene	5	ND – 13	MW-06	2/12
trans-1,2-Dichloroethene	5	ND – 7.6	MW-22	1/12
Trichloroethene	5	ND – 15,000	MW-21	2/12
Vinyl Chloride	2	ND – 600	MW-05	4/12
Xylene	5	ND – 10	MW-20	1/12

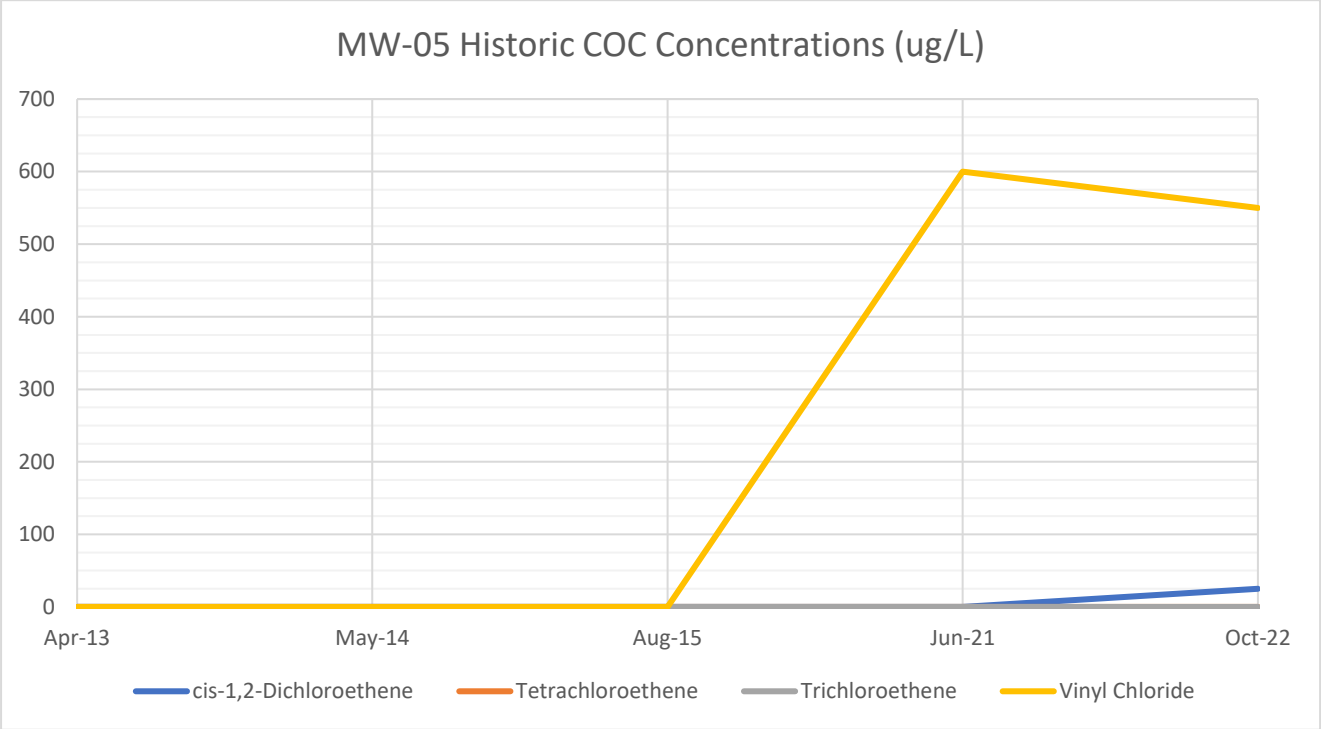
Exceedances Summary of Laboratory Analytical Results in October 2022 Groundwater				
Constituent	**SCGs***	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
VOCs				
1,1,1-Trichloroethane	5	ND – 1,400	MW-21	3/10
1,1-Dichloroethane	5	ND – 1,100	MW-21	5/10
1,1-Dichloroethene	5	ND – 200	MW-21	1/10
1,2-Dichloroethane	0.6	ND – 4.2	MW-22	1/10
1,2-Dichloropropane	1	ND – 30	MW-22	1/10
2-Butanone	50	ND – 5,000	MW-06	1/10
2-Hexanone	50	ND – 320	MW-06	1/10
Acetone	50	ND – 1,600	MW-06	1/10
Benzene	1	ND – 7.8	MW-22	3/10
Chloroethane	5	ND – 220	MW-22	4/10
cis-1,2-Dichloroethene	5	ND – 30,000	MW-21	5/10
Ethylbenzene	5	ND – 5.1	MW-22	1/10
Tetrachloroethene	5	ND – 380	MW-21	2/10
Toluene	5	ND – 180	MW-21	4/10
trans-1,2-Dichloroethene	5	ND – 9.1	MW-22	1/10
Trichloroethene	5	ND – 3,200	MW-21	2/10
Vinyl Chloride	2	ND – 3,400	MW-21	5/10
Xylene	5	ND – 33	MW-20	2/10

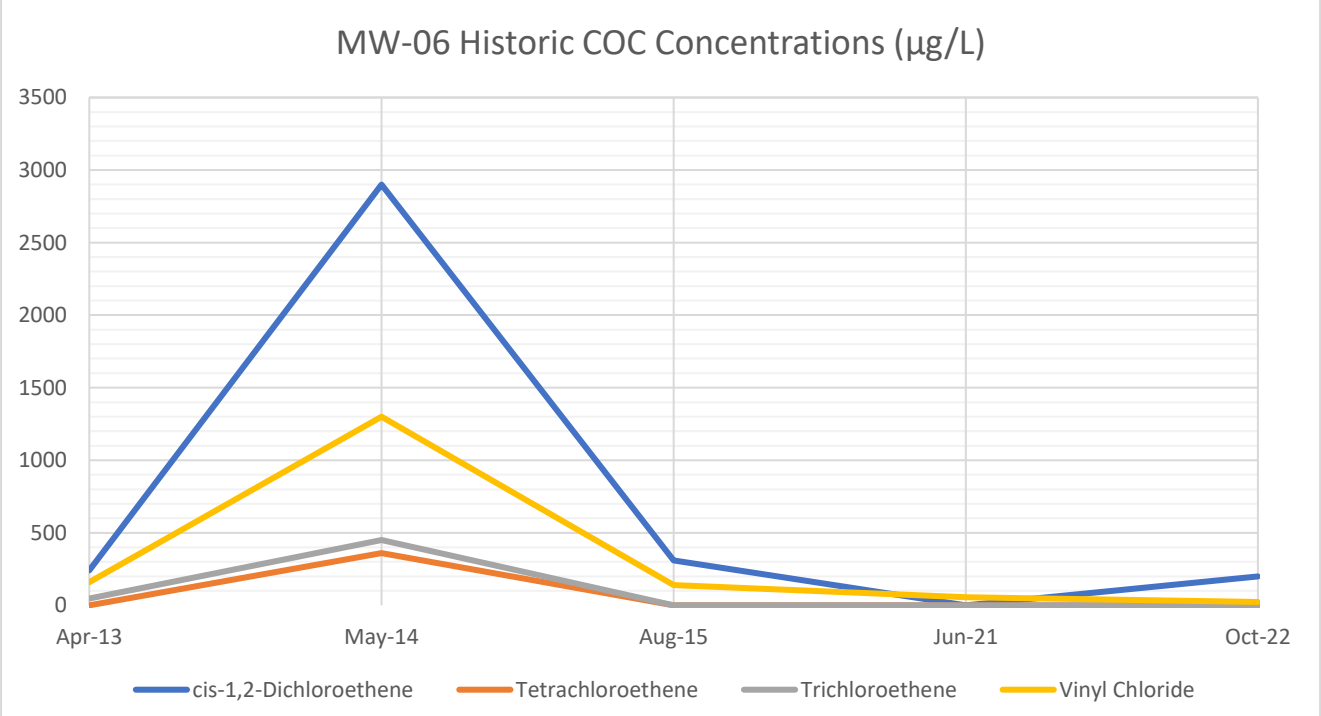
Notes:
ND – Non-detect.
* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000, June 2004, February 2023 Addendum.

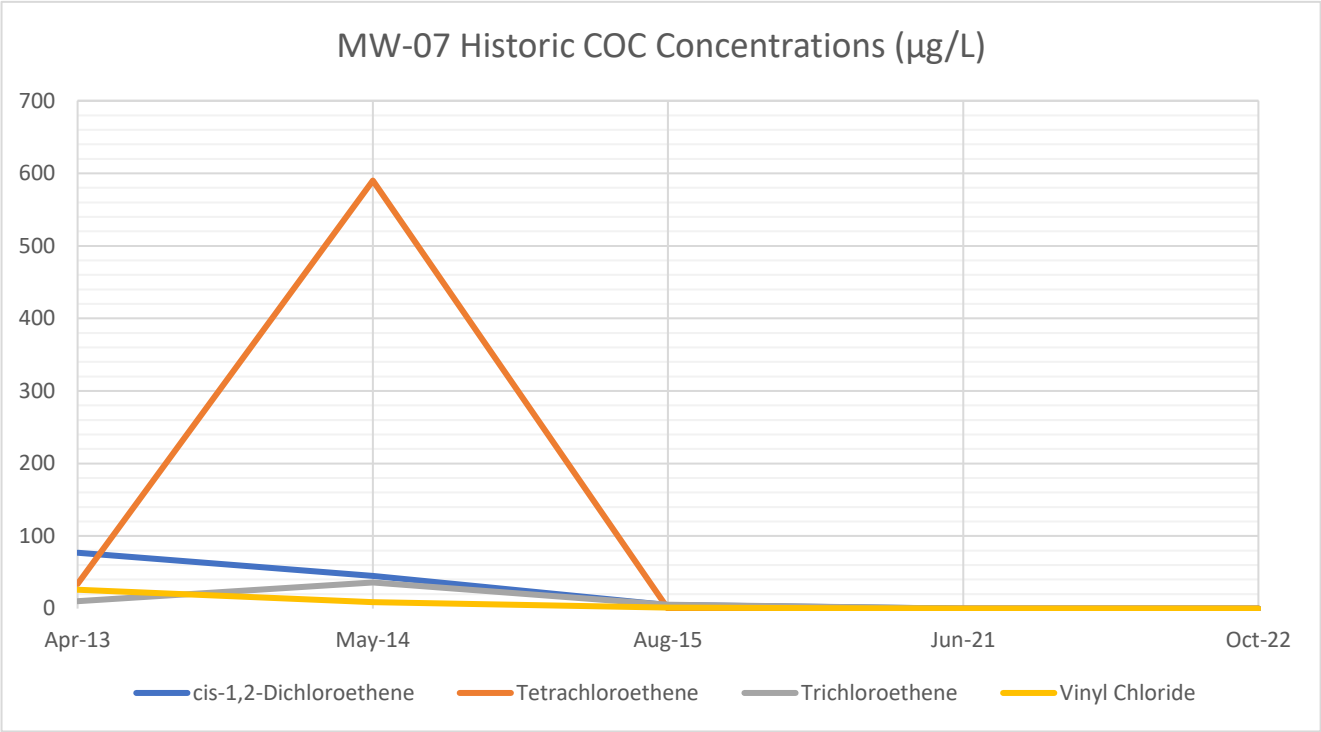
In June 2021 and October 2022, the eighteen above listed VOCs were detected at concentrations above the respective SCG for these compounds in groundwater samples collected from the monitoring well network. Detected compounds exceeding their respective SCGs for each well historically are shown on **Figure 3 and 4**.

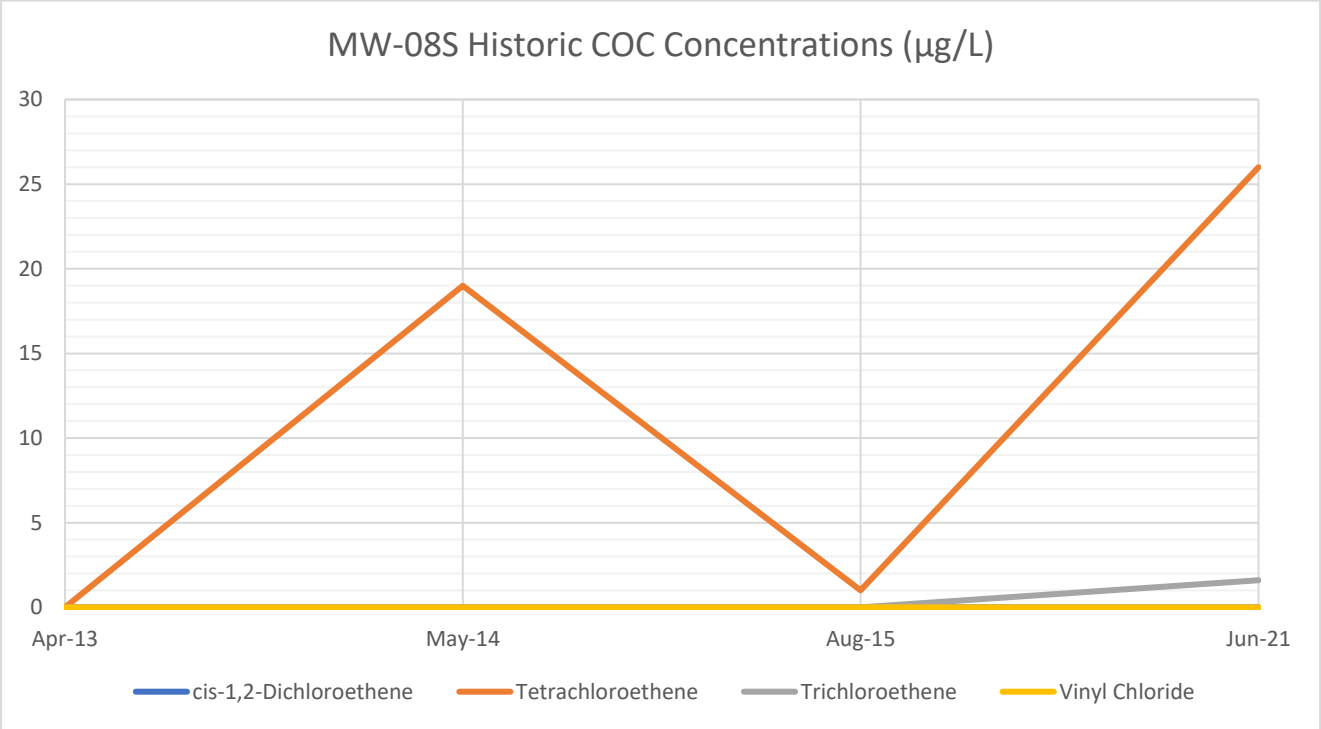
3.3 Site COC Historic Trend Graphs

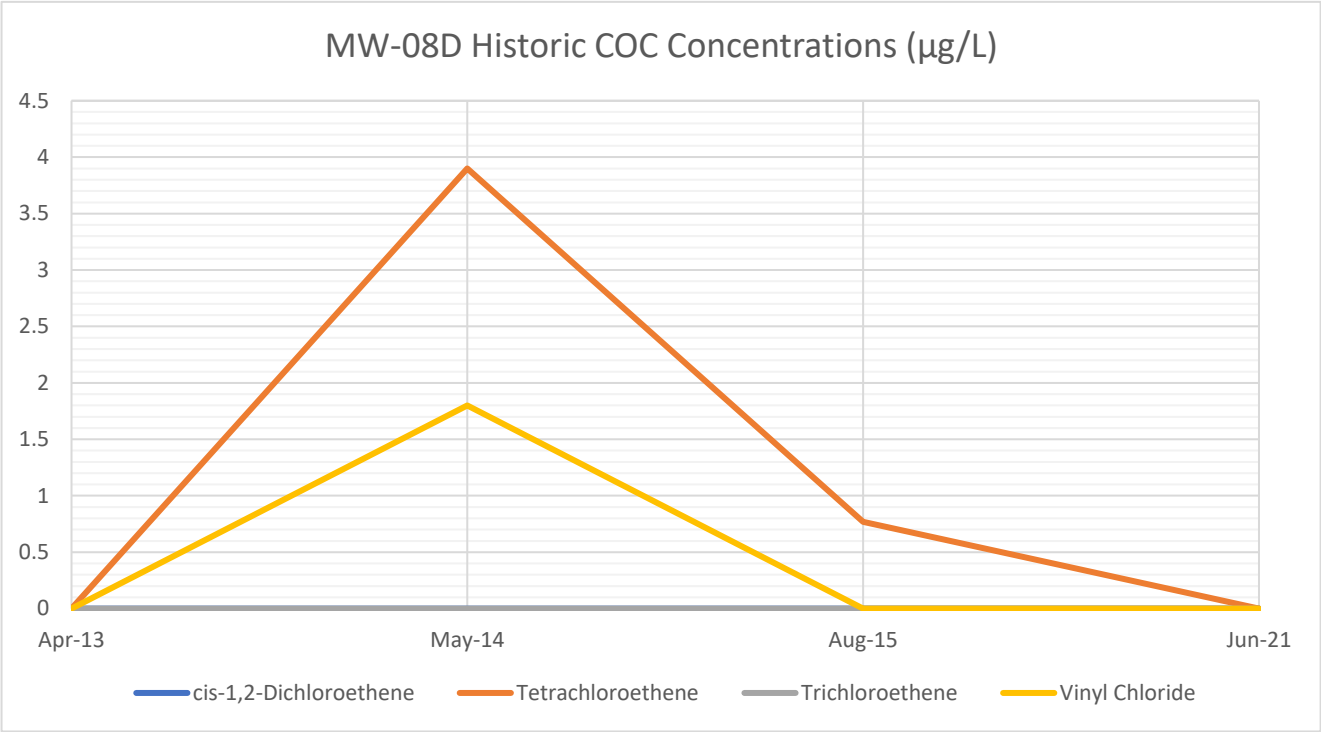
Below are graphs of historic concentrations of Site COCs for the monitoring well network. MW-04S, MW-04D, MW-09, and MW-10 are not shown below as there were no Site COC exceedances in these wells. 1,1,2,2-PCA is not shown on the graphs because it was non-detect in all wells during this monitoring period.

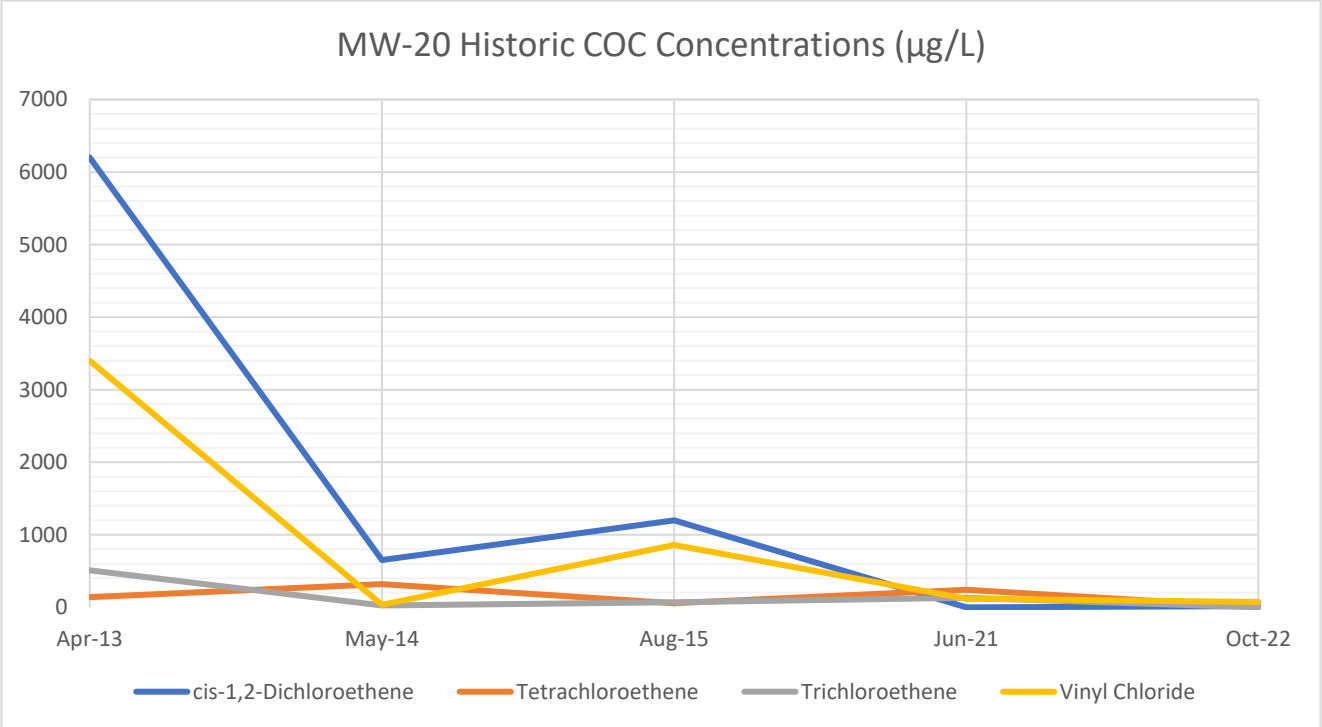


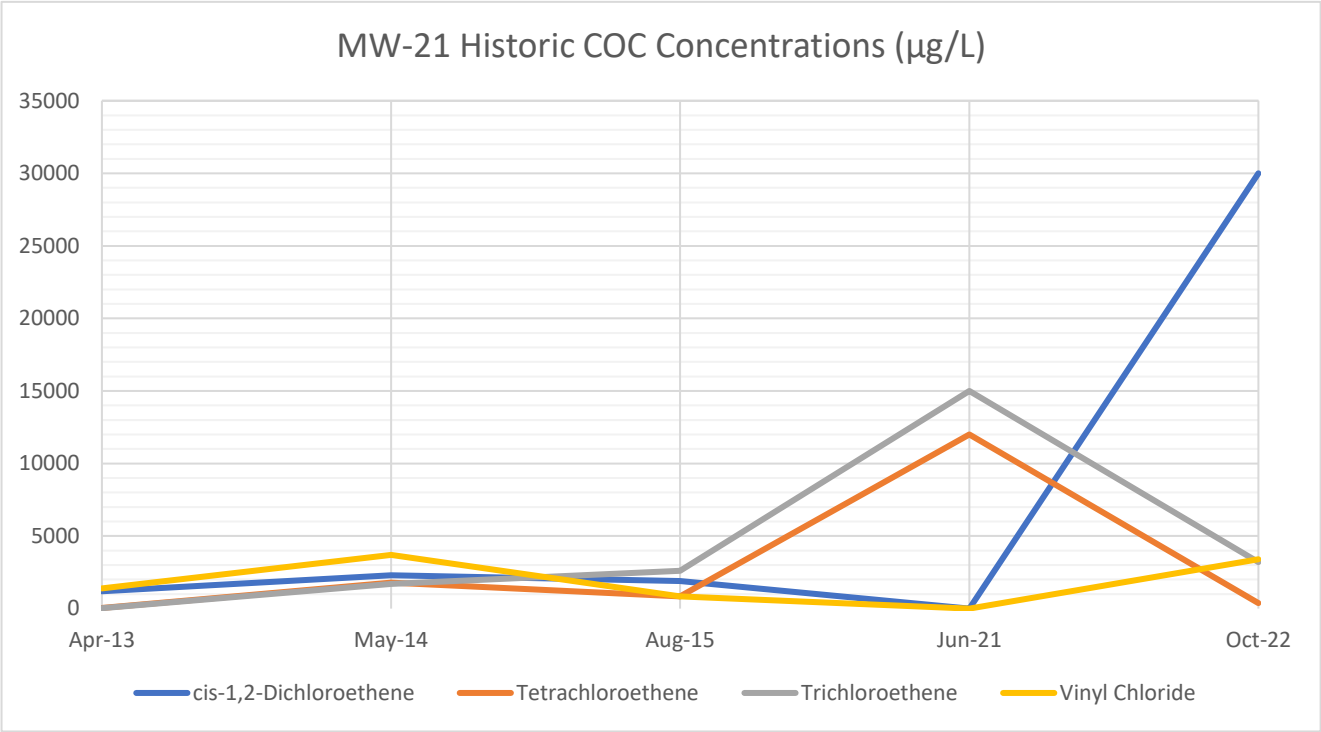


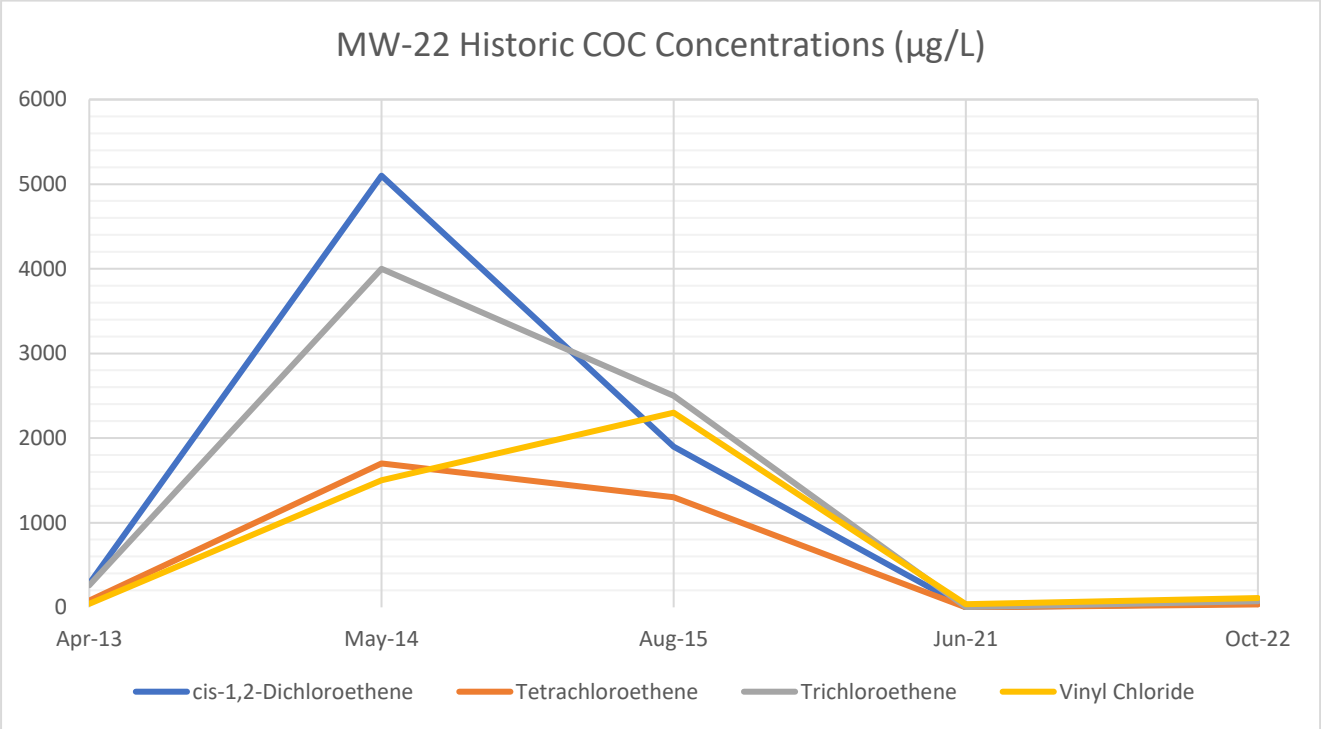

MW-07 Historic COC Concentrations (µg/L)
700
600
500
400
300
200
100
0
Apr-13
May-14
Aug-15
Jun-21
Oct-22
cis-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl Chloride


MW-08S Historic COC Concentrations (µg/L)
30
25
20
15
10
5
0
Apr-13
May-14
Aug-15
Jun-21
cis-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl Chloride


MW-08D Historic COC Concentrations (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Apr-13
May-14
Aug-15
Jun-21
cis-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl Chloride


MW-20 Historic COC Concentrations (µg/L)
7000
6000
5000
4000
3000
2000
1000
0
Apr-13
May-14
Aug-15
Jun-21
Oct-22
cis-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl Chloride


MW-21 Historic COC Concentrations (µg/L)
35000
30000
25000
20000
15000
10000
5000
0
Apr-13
May-14
Aug-15
Jun-21
Oct-22
cis-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl Chloride


MW-22 Historic COC Concentrations (µg/L)
6000
5000
4000
3000
2000
1000
0
Apr-13
May-14
Aug-15
Jun-21
Oct-22
cis-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl Chloride

4.0 Cost Summary

The total estimated cost of TRC's management activities for June 2020 through May 2023 is approximately $102,054. Site management activities during the reporting period included two fifth-quarter Site inspections; two fifth-quarter sampling events of ten to twelve groundwater monitoring locations, with analysis for VOCs; two Site visits to inspect the former treatment system building and equipment; and preparation of a Technical Scope of Work for decommissioning of former treatment system equipment and wells. The total includes engineering costs, as well as expenses associated with the project. Laboratory services were provided under a Department call-out contract with Pace and Eurofins. It should be noted that the total does not include the laboratory costs or other costs incurred by NYSDEC for project support. A summary of the Site management costs for June 2020 through May 2023 are presented below:

Summary of Site Management Costs
June 2020 through May 2023

Cost Item	Amount Expended	Percent of Total Cost
Engineering Support		
TRC	$100,111	98%
Expenses		
TRC	$1,943	2%
Total Cost	**$102,054**	----

The following provides a review of each cost item:

- Engineering support includes labor costs associated with project management (e.g., WA Package preparation, monthly invoicing, project scheduling and coordination, etc.), Site inspections, Site visits, groundwater sampling, data validation, electronic data deliverable preparation, and reporting (e.g.., Groundwater Monitoring Report Memo preparation, TSOW preparation, DUSR, etc.).
- Expense costs include travel, equipment, and supplies in support of the Site monitoring and inspection event and routine Site maintenance activities.

5.0 Conclusions and Recommendations

5.1 Conclusions

- Based on groundwater elevations measured in June 2021 and October 2022, groundwater flow in at the Site appears to be to the southwest (consistent with historic observations and regional expectations).
- Five of the wells in the monitoring well network (MW-04S, MW-04D, MW-07, MW-09, and MW-10) had no detected exceedances of Site COCs during this monitoring period. Three of the wells (MW-05, MW-06, MW-20) had exceedances for at least one Site COC but had a decreasing trend for all contaminant exceedances during this monitoring period. Two of the wells (MW-21 and MW-22) had exceedances for Site COCs with at least one COC showing an increasing trend in concentration during this monitoring period. Lastly, two wells (MW-08S and MW-08D) were inaccessible for at least one of the sampling events in this monitoring period.
- Eighteen VOCs were detected at concentrations exceeding the respective SCG in both sampling events performed during this reporting period.
- However, the primary VOCs that continue to be present in Site groundwater include: 1,1,1-Trichloroethane, 1,1-Dichloroethane, Tetrachloroethene, Toluene, and Vinyl Chloride.
- Site and groundwater use are consistent with the restrictions set forth in the RODs and the SMP. Two fifth-quarter Site inspections and two Site visits were also completed. The ICs operated as intended during this reporting period.
- Based on the restrictions and continued monitoring, the remedy continued to be protective of human health and the environment through this reporting period.

5.2 Recommendations

- Monitoring wells MW-08D and MW-08S appear to have been destroyed at the surface, and should be properly decommissioned in accordance with NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. Once decommissioned, the wells will be formally removed from the monitoring well network going forward.
- All accessible wells in the monitoring well network should be surveyed by a NYS licensed professional land surveyor. The scope of work should include measurements of the location and elevations associated with each groundwater monitoring well (ground surface, top of casing, and top of protective outer casing). A Site benchmark should also be established for future reference.
- Inspection frequency should remain on a fifth quarter cycle (15 months), as well as following severe weather events, to coincide with Site monitoring. Inspections shall include completion of inspection reports and verification that the ICs and ECs are in-place and effective at the Site.
- The groundwater monitoring frequency should remain on a fifth quarter cycle (every 15 months). The next groundwater monitoring event will be performed in January 2024.
- The PRR frequency should remain on a three-year cycle. The next PRR covering the reporting period beginning June 1, 2023, and ending May 31, 2026, would be due in August/September 2026.

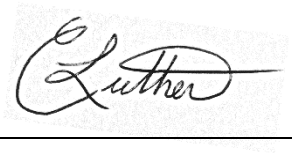
- Groundwater hydraulic monitoring should continue during subsequent groundwater monitoring events, and groundwater contour maps should be prepared once vertical control is established for the wells.
- A SMP addendum/revision should be prepared to reflect the 2023 change in property ownership, decommissioning of the former treatment system and associated remediation wells, and above changes/modifications if the changes are acceptable to the Department. In addition, the SMP addendum should include details for tracking of climate resiliency metrics going forward.

6.0 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 engineering controls employed at this Site remain unchanged from the date the control was put in place, or last approved by the NYSDEC DER;
- Nothing has occurred that would impair the ability of such controls 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 requirement for this control.

TRC Engineers, Inc.



Prepared By: _____

Connor Luther

Associate Project Manager

Reviewed By: _____

Kevin D. Sullivan, P.E.

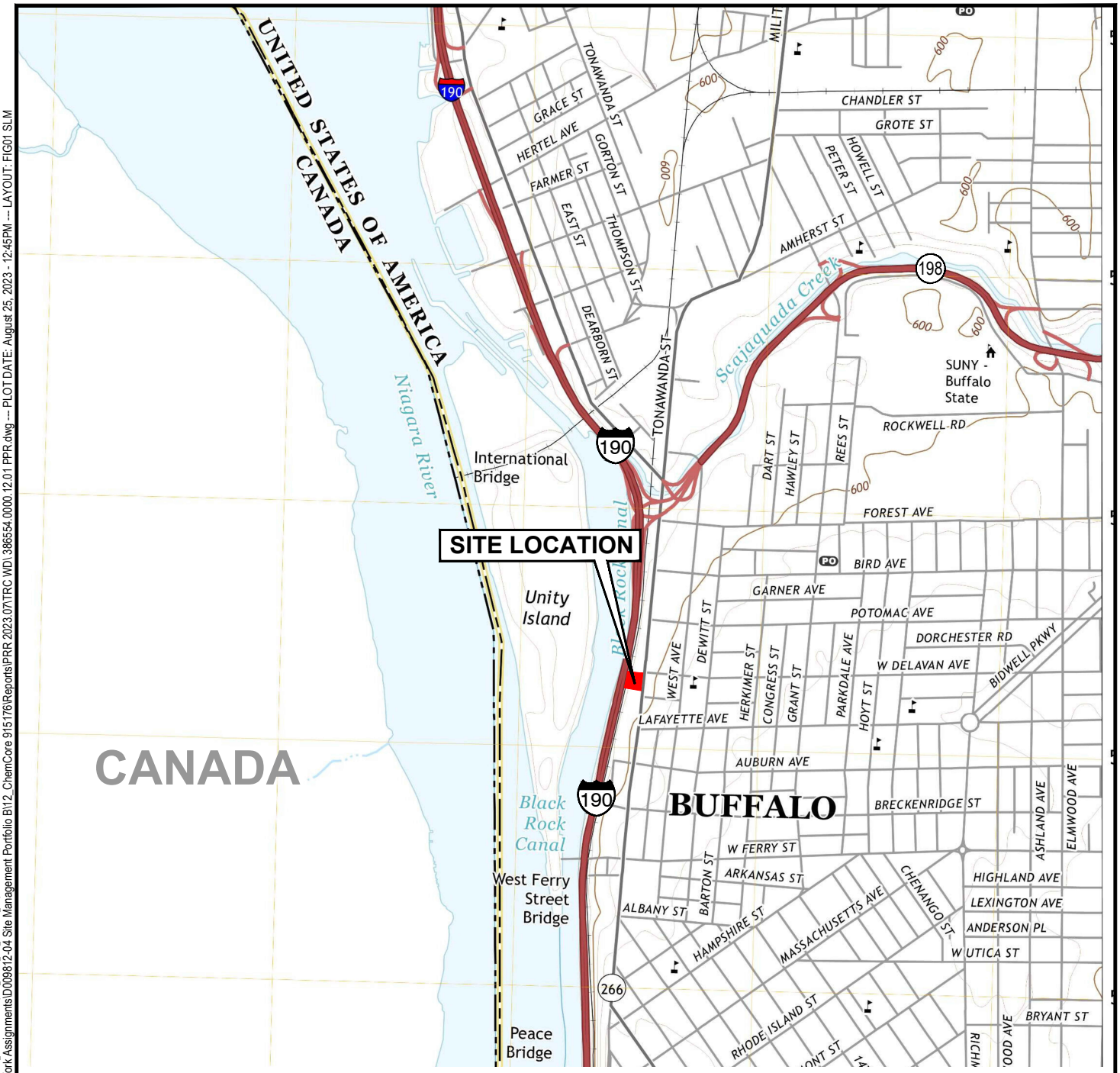
Principal Engineer

7.0 Future Site Activities

Based on the recommendations in Section 5, the following Site management activities will be completed during the next reporting period (June 2023 to May 2026):

- Site Inspections – Fifth quarter/15 months (next scheduled: Q1 2024)
- Groundwater – Fifth quarter/15-months (next scheduled: Q1 2024)
- PRR – Three-Year Report (next scheduled: August/September 2026)

Figures



MAP SOURCE:

MAP OBTAINED THROUGH USE OF TOPOVIEW WITH THE INTERFACE CREATED BY THE NATIONAL GEOLOGIC MAP DATABASE PROJECT (NGMDB), IN SUPPORT OF THE TOPOGRAPHIC MAPPING PROGRAM, MANAGED BY THE USGS NATIONAL GEOSPATIAL PROGRAM (NGP). DATED 09/27/2019.

QUADRANGLE LOCATION

N

0 2000' 4000'

APPROXIMATE SCALE IN FEET

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
www.trccompanies.com

PROJECT:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHEM-CORE - NYSDEC SITE NO. 915176
1382 NIAGARA STREET - BUFFALO, NEW YORK

TITLE:
SITE LOCATION MAP

DRAWN BY:	H. DELGADO
CHECKED BY:	J. YEAGER
APPROVED BY:	K. SULLIVAN
DATE:	AUGUST 2023
PROJ. NO.:	386554.0000.12
FILE:	386554.0000.12.01 PPR.dwg

FIGURE 1

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- GEW-## — EXISTING EXTRACTION WELL
- IG-## — EXISTING INJECTION WELL/GALLERY RISER
- MW-## — EXISTING MONITORING WELL
- MW-##, PZ-##, IW-## — MONITORING WELL, PIEZOMETER, AND/OR INJECTION WELL THAT COULD NOT BE LOCATED
- HISTORIC GROUNDWATER FLOW DIRECTION

NOTES

1. SYMBOLS NOT TO SCALE.
2. LOCATIONS AND DIMENSIONS OF BOUNDARIES AND PHYSICAL FEATURES ARE APPROXIMATE.

N

0 120' 240'

SCALE IN FEET: 1" = 120'
SHEET SIZE: 11" X 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHEM-CORE - SITE NO. 915176
1382 NIAGARA STREET, BUFFALO, NY 14213

TITLE:
SITE LAYOUT MAP

DRAWN BY:	H. DELGADO	PROJ NO.:	386554.0000.12
CHECKED BY:	J. YAEGER		
APPROVED BY:	K. SULLIVAN		**FIGURE 2**
DATE:	SEPTEMBER 2023		

TRC
1090 Union Road, Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: 386554.0000.12.02 PPR.dwg

MW-10	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	ND	ND	NS
Tetrachloroethene	5	ND	ND	NS
Trichloroethene	5	ND	ND	NS
Vinyl Chloride	2	ND	ND	NS

MW-06	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	**240**	**2,900**	**310**
Tetrachloroethene	5	ND	**360**	ND
Trichloroethene	5	**46**	**450**	ND
Vinyl Chloride	2	**160**	**1,300**	**140**

MW-09	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	ND	ND	NS
Tetrachloroethene	5	ND	ND	NS
Trichloroethene	5	ND	ND	NS
Vinyl Chloride	2	ND	ND	NS

MW-20	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	**6,200**	**650**	**1,200**
Tetrachloroethene	5	**140**	**320**	**58**
Trichloroethene	5	**510**	**24**	**70**
Vinyl Chloride	2	**3,400**	**35**	**860**

MW-07	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	**77**	**45**	4.8
Tetrachloroethene	5	**34**	**590**	ND
Trichloroethene	5	**10**	**36**	**5.4**
Vinyl Chloride	2	**26**	**9**	1.2

MW-21	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	**1,200**	**2,300**	**1,900**
Tetrachloroethene	5	**46**	**1,800**	**850**
Trichloroethene	5	**29**	**1,700**	**2,600**
Vinyl Chloride	2	**1,400**	**3,700**	**850**

MW-22	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	**280**	**5,100**	**1,900**
Tetrachloroethene	5	**79**	**1,700**	**1,300**
Trichloroethene	5	**260**	**4,000**	**2,500**
Vinyl Chloride	2	**41**	**1,500**	**2,300**

MW-08S	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	NS	ND	ND
Tetrachloroethene	5	NS	**19**	1
Trichloroethene	5	NS	ND	ND
Vinyl Chloride	2	NS	ND	ND

MW-08D	Concentration (µg/L)			
VOCs	Standard*	Apr-13	May-14	Aug-15
cis-1,2-Dichloroethene	5	ND	ND	ND
Tetrachloroethene	5	NS	3.9	0.77
Trichloroethene	5	NS	ND	ND
Vinyl Chloride	2	NS	1.8	ND

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- GEW-## — EXISTING EXTRACTION WELL
- IG-## — EXISTING INJECTION WELL/GALLERY RISER
- MW-## — EXISTING MONITORING WELL
- MW-##, PZ-##, IW-## — MONITORING WELL, PIEZOMETER, AND/OR INJECTION WELL THAT COULD NOT BE LOCATED
- HISTORIC GROUNDWATER FLOW DIRECTION

NOTES

1. SYMBOLS NOT TO SCALE.
2. LOCATIONS AND DIMENSIONS OF BOUNDARIES AND PHYSICAL FEATURES ARE APPROXIMATE.

DATA KEY

NS NOT SAMPLED

ND NON DETECTED

VOCs VOLATILE ORGANIC COMPOUNDS

µg/L MICROGRAMS PER LITER

*NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA GROUNDWATER (TOGS 1.1.1).

BOLD INDICATES COMPOUNDS EXCEEDING THE GROUNDWATER STANDARDS IN TOGS 1.1.1.

ALL DATA LABORATORY QUALIFIERS HAVE BEEN REMOVE FOR CLARITY.

N

0 120' 240'

SCALE IN FEET: 1" = 120'
SHEET SIZE: 11" X 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHEM-CORE - SITE NO. 915176
1382 NIAGARA STREET, BUFFALO, NY 14213

TITLE: **VOLATILE ORGANIC COMPOUND EXCEEDANCES IN GROUNDWATER (2013 - 2015)**

DRAWN BY:	H. DELGADO	PROJ NO.:	386554.0000.12
CHECKED BY:	J. YAEGER		
APPROVED BY:	K. SULLIVAN		**FIGURE 3**
DATE:	SEPTEMBER 2023		

TRC
1090 Union Road, Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: 386554.0000.12.03 PPR.dwg

MW-05	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
cis-1,2-Dichloroethene	5	ND	**25**
Tetrachloroethene	5	ND	ND
Trichloroethene	5	ND	ND
Vinyl Chloride	2	**600**	**550**

MW-10	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
No Results Above Class GA Values			

MW-06	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
cis-1,2-Dichloroethene	5	ND	**200**
Tetrachloroethene	5	ND	ND
Trichloroethene	5	ND	ND
Vinyl Chloride	2	**55**	**23**

MW-09	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
No Results Above Class GA Values			

MW-20	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
cis-1,2-Dichloroethene	5	ND	**16**
Tetrachloroethene	5	**240**	3.8
Trichloroethene	5	**130**	ND
Vinyl Chloride	2	**120**	**72**

MW-07	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
No Results Above Class GA Values			

MW-21	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
cis-1,2-Dichloroethene	5	ND	**30,000**
Tetrachloroethene	5	**12,000**	**380**
Trichloroethene	5	**15,000**	**3,200**
Vinyl Chloride	2	ND	**3,400**

MW-04S	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
No Results Above Class GA Values			

MW-04D	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
No Results Above Class GA Values			

MW-22	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
cis-1,2-Dichloroethene	5	ND	**47**
Tetrachloroethene	5	ND	**33**
Trichloroethene	5	3.6	**71**
Vinyl Chloride	2	**37**	**110**

MW-08S	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
cis-1,2-Dichloroethene	5	ND	N/A
Tetrachloroethene	5	**26**	N/A
Trichloroethene	5	1.6	N/A
Vinyl Chloride	2	ND	N/A

MW-08D	Concentration (µg/L)		
VOCs	Standard*	Jun-21	Oct-22
No Results Above Class GA Values			

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- GEW-## — EXISTING EXTRACTION WELL
- IG-## — EXISTING INJECTION WELL/GALLERY RISER
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SCALE IN FEET: 1" = 120'
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PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHEM-CORE - SITE NO. 915176
1382 NIAGARA STREET, BUFFALO, NY 14213

TITLE: **VOLATILE ORGANIC COMPOUND EXCEEDANCES IN GROUNDWATER (JUNE 2021 AND OCTOBER 2022)**

DRAWN BY:	H. DELGADO	PROJ NO.:	386554.0000.12
CHECKED BY:	J. YAEGER		
APPROVED BY:	K. SULLIVAN		
DATE:	SEPTEMBER 2023		

FIGURE 4

TRC
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FILE NO.: 386554.0000.12.04 PPR.dwg

Tables

Table 1.1
New York State Department of Environmental Conservation
ChemCore
Buffalo, New York
Summary of Results of VOC Analysis of Groundwater - October 2022

			Sample Location:	MW-04D	MW-04S	MW-05	MW-06	MW-07	MW-08D		MW-08S	MW-09	MW-10	MW-20	MW-21	MW-22
			Sample Name:	CC-MW-4D	CC-MW-4S	CC-MW-05	CC-MW-06	CC-MW-07	CC-MW-08D	CC-DUPE-1	CC-MW-08S	CC-MW-9	CC-MW-10	CC-MW-20	CC-MW-21	CC-MW-22
			Lab Sample ID:	480-186529-2	480-186529-1	480-186529-5	480-186529-11	480-186529-12	480-186529-7	480-186529-13	480-186529-8	480-186529-9	480-186529-6	480-186529-10	480-186529-4	480-186529-3
			Sample Date:	6/22/2021	6/22/2021	6/23/2021	6/24/2021	6/24/2021	6/23/2021	6/24/2021	6/23/2021	6/23/2021	6/23/2021	6/24/2021	6/22/2021	6/22/2021
VOCs	Unit	Class GA Value*		Results	Results	Results	Results	Results	Results	Results	Results (Field Dupe)	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	**92**	**3,500**	**77**
1,1,2,2-Tetrachloroethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,1,2-Trichloroethane	ug/L	1		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,1-Dichloroethane	ug/L	5		1.0 U	**0.74 J**	**75**	**130**	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	**0.60 J**	**40**	**1,100 J**	**200**
1,1-Dichloroethene	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	**21**	2,000 U	5.0 U
1,2,3-Trichlorobenzene	ug/L	5		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,2-Dibromo-3-Chloropropane	ug/L	0.04		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,2-Dibromoethane (EDB)	ug/L	0.0006		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	ug/L	3		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,2-Dichloroethane	ug/L	0.6		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	**5.8**
1,2-Dichloropropane	ug/L	1		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	**33**
1,3-Dichlorobenzene	ug/L	3		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,4-Dichlorobenzene	ug/L	3		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
1,4-Dioxane	ug/L	NC		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	ug/L	50		10 U	10 U	10 U	**16,000**	20 U	10 U	10 U	10 U	40 U	10 U	200 U	20,000 U	50 U
2-Hexanone	ug/L	50		5.0 U	5.0 U	5.0 U	**390**	10 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	100 U	10,000 U	25 U
4-Methyl-2-pentanone (MIBK)	ug/L	NC		5.0 U	5.0 U	5.0 U	100 U	10 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	100 U	10,000 U	25 U
Acetone	ug/L	50		10 U	10 U	10 U	**6,000**	20 U	10 U	10 U	10 U	40 U	10 U	200 U	20,000 U	**15 J**
Benzene	ug/L	1		1.0 U	1.0 U	**1.7**	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	**6.1**
Bromochloromethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Bromodichloromethane	ug/L	50		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Bromoform	ug/L	50		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Bromomethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Carbon disulfide	ug/L	60		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Carbon tetrachloride	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Chlorobenzene	ug/L	5		1.0 U	1.0 U	1.0 U	**9.8 J**	**1.5 J**	1.0 U	1.0 U	1.0 U	4.0 U	**4.1**	20 U	2,000 U	**120**
Chloroethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Chloroform	ug/L	7		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Chloromethane	ug/L	5		1.0 U	1.0 U	**210**	**360**	2.0 U	1.0 U	1.0 U	**0.99 J**	4.0 U	1.0 U	**1,300**	**60,000**	**18**
cis-1,2-Dichloroethene	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
cis-1,3-Dichloropropene	ug/L	0.4(a)		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Cyclohexane	ug/L	NC		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Dibromochloromethane	ug/L	50		1.0 UJ	1.0 UJ	1.0 UJ	20 UJ	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ	1.0 UJ	20 UJ	2,000 UJ	5.0 UJ
Dichlorodifluoromethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Ethylbenzene	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Isopropylbenzene (Cumene)	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Methyl acetate	ug/L	NC		2.5 U	2.5 U	2.5 U	50 U	5.0 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	50 U	5,000 U	13 U
Methylcyclohexane	ug/L	NC		1.0 U	**0.40 J**	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Methylene Chloride	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Methyl-tert-butyl ether	ug/L	10		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	**5.0**	1.0 U	**24**	2,000 U	5.0 U
Styrene	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Tetrachloroethene (PCE)	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	**26**	4.0 U	1.0 U	**240**	**12,000**	5.0 U
Toluene	ug/L	5		1.0 U	1.0 U	1.0 U	**13 J**	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	**9.7**
trans-1,2-Dichloroethene	ug/L	5		1.0 U	1.0 U	**1.1**	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	**7.6**
trans-1,3-Dichloropropene	ug/L	0.4(a)		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Trichloroethene (TCE)	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	**1.6**	4.0 U	1.0 U	**130**	**15,000**	**3.6 J**
Trichlorofluoromethane	ug/L	5		1.0 U	1.0 U	1.0 U	20 U	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	20 U	2,000 U	5.0 U
Vinyl chloride	ug/L	2		1.0 U	1.0 U	**600**	**55**	2.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	**120**	2,000 U	**37**
Xylene (Total)	ug/L	5		2.0 U	2.0 U	2.0 U	40 U	4.0 U	2.0 U	2.0 U	2.0 U	8.0 U	2.0 U	40 U	4,000 U	**10**

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/June 2004/February 2023 Addendum.

Table 1.2
New York State Department of Environmental Conservation
ChemCore
Buffalo, New York
Summary of Results of VOC Analysis of Groundwater - October 2022

	Sample Location:		MW-04D		MW-04S		MW-05		MW-06		MW-07		MW-09				MW-10		MW-20		MW-21		MW-22	
	Sample Name:		CC-MW-4D		CC-MW-4S		CC-MW-05		CC-MW-06		CC-MW-07		CC-MW-09		CC-MW-DUPE		CC-MW-10		CC-MW-20		CC-MW-21		CC-MW-22	
	Lab Sample ID:		22K0296-04		22K0296-05		22K0296-03		22K0296-06		22K0296-07		22K0296-02		22K0296-08		22K0296-01		22K0296-10		22K0296-11		22K0296-12	
	Sample Date:		10/30/2022		10/30/2022		10/30/2022		10/31/2022		10/31/2022		10/30/2022		10/30/2022		10/30/2022		10/31/2022		10/31/2022		10/31/2022	
VOCs	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results (Field Dupe)		Results		Results		Results		Results	
1,1,1-Trichloroethane	ug/L	5	0.5	U	1	U	1	U	5	U	1	U	4	U	2	U	1	U	**16**		**1400**		**22**	
1,1,2,2-Tetrachloroethane	ug/L	5	1	U	0.5	U	0.5	U	2.5	U	2	U	2	U	1	U	0.5	U	5	U	250	U	2	U
1,1,2-Trichloroethane	ug/L	1	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	4	U
1,1,2-Trichlorotrifluoroethane	ug/L	5	**0.17**	**J**	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	4	U
1,1-Dichloroethane	ug/L	5	1	U	**0.44**	**J**	**46**		**87**		2	U	4	U	2	U	**0.30**	**J**	**380**		**1100**		**140**	
1,1-Dichloroethene	ug/L	5	5	U	1	U	1	U	**1.4**	**J**	10	U	4	U	2	U	1	U	10	U	**200**	**J**	**1.6**	**J**
1,2,3-Trichlorobenzene	ug/L	5	1	U	5	U	5	U	25	U	2	U	20	U	10	U	5	U	50	U	2500	U	20	U
1,2,4-Trichlorobenzene	ug/L	5	5	UJ	1	U	1	U	5	U	10	UJ	4	U	2	U	1	U	10	U	500	U	4	U
1,2-Dibromo-3-Chloropropane	ug/L	0.04	0.5	U	5	UJ	5	UJ	25	UJ	1	U	20	UJ	10	UJ	5	UJ	50	UJ	2500	UJ	20	UJ
1,2-Dibromoethane (EDB)	ug/L	0.0006	1	U	0.5	U	0.5	U	2.5	U	2	U	2	U	1	U	0.5	U	5	U	250	U	2	U
1,2-Dichlorobenzene	ug/L	3	1	U	1	U	1	U	5	U	2	U	4	U	2	U	**0.14**	**J**	10	U	500	U	4	U
1,2-Dichloroethane	ug/L	0.6	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	**4.2**	
1,2-Dichloropropane	ug/L	1	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	**30**	
1,3-Dichlorobenzene	ug/L	3	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	4	U
1,4-Dichlorobenzene	ug/L	3	50	UJ	1	U	1	U	5	U	100	UJ	4	U	2	U	**0.39**	**J**	10	U	500	U	4	U
1,4-Dioxane	ug/L	NC	20	U	50	UJ	50	UJ	250	UJ	40	U	200	UJ	100	UJ	50	UJ	500	UJ	25000	UJ	200	UJ
2-Butanone (MEK)	ug/L	50	10	U	20	U	20	U	**5,000**		20	U	80	U	40	U	20	U	**18**	**J**	10000	U	**28**	**J**
2-Hexanone	ug/L	50	10	U	10	U	10	U	**320**		20	U	40	U	20	U	10	U	100	U	5000	U	40	U
4-Methyl-2-pentanone (MIBK)	ug/L	NC	50	U	10	U	10	U	50	U	100	U	40	U	20	U	10	U	100	U	5000	U	40	U
Acetone	ug/L	50	1	U	50	U	50	U	**1,600**		2	U	200	U	100	U	50	U	500	U	25000	U	**40**	**J**
Benzene	ug/L	1	1	U	1	U	**1.2**		**1.4**	**J**	2	U	4	U	2	U	1	U	10	U	500	U	**7.8**	
Bromochloromethane	ug/L	5	0.5	U	1	U	1	U	5	U	1	U	4	U	2	U	1	U	10	U	500	U	4	U
Bromodichloromethane	ug/L	50	1	U	0.5	U	0.5	U	2.5	U	2	U	2	U	1	U	0.5	U	5	U	250	U	2	U
Bromoform	ug/L	50	2	UJ	1	U	1	U	5	U	4	UJ	4	U	2	U	1	U	10	U	500	U	4	U
Bromomethane	ug/L	5	5	U	2	UJ	2	UJ	10	UJ	10	U	8	UJ	4	UJ	2	UJ	20	UJ	1000	UJ	8	UJ
Carbon disulfide	ug/L	60	5	U	5	U	5	U	25	U	10	U	20	U	10	U	5	U	50	U	2500	U	20	U
Carbon tetrachloride	ug/L	5	1	U	5	U	5	U	25	U	2	U	20	U	10	U	5	U	50	U	2500	U	20	U
Chlorobenzene	ug/L	5	2	U	1	U	1	U	5	U	4	U	4	U	2	U	**0.91**	**J**	10	U	500	U	4	U
Chloroethane	ug/L	5	2	U	2	U	**2.0**		**9.3**	**J**	4	U	8	U	4	U	**6.6**		**89**		1000	U	**220**	
Chloroform	ug/L	7	2	UJ	2	U	2	U	10	U	4	UJ	8	U	4	U	2	U	20	U	1000	U	8	U
Chloromethane	ug/L	5	**0.28**	**J**	2	UJ	2	UJ	10	UJ	**0.32**	**J**	8	UJ	4	UJ	2	UJ	20	UJ	1000	UJ	8	UJ
cis-1,2-Dichloroethene	ug/L	5	0.5	U	**0.93**	**J**	**25**		**200**		1	U	4	U	2	U	1	U	**16**		**30000**		**47**	
cis-1,3-Dichloropropene	ug/L	0.4(a)	5	U	0.5	U	0.5	U	2.5	U	10	U	2	U	1	U	0.5	U	5	U	250	U	2	U
Cyclohexane	ug/L	NC	0.5	U	5	U	5	U	25	U	1	U	20	U	10	U	5	U	50	U	2500	U	20	U
Dibromochloromethane	ug/L	50	2	U	0.5	U	0.5	U	2.5	U	4	U	2	U	1	U	0.5	U	5	U	250	U	2	U
Dichlorodifluoromethane	ug/L	5	1	U	2	U	2	U	10	U	2	U	8	U	4	U	2	U	20	U	1000	U	8	U
Ethylbenzene	ug/L	5	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	**2.2**	**J**	500	U	**5.1**	
Isopropylbenzene (Cumene)	ug/L	5	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	**0.44**	**J**
Methyl acetate	ug/L	NC	1	U	1	U	1	U	**32**		2	U	4	U	2	U	1	U	10	U	500	U	**73**	
Methylcyclohexane	ug/L	NC	5	U	1	U	1	U	5	U	10	U	4	U	2	U	1	U	10	U	500	U	4	U
Methylene Chloride	ug/L	5	1	U	5	U	5	U	25	U	2	U	20	U	10	U	5	U	50	U	2500	U	**2.0**	**J**
Methyl-tert-butyl ether	ug/L	10	1	U	**0.29**	**J**	**0.55**	**J**	5	U	2	U	4	U	2	U	1	U	10	U	500	U	**1.1**	**J**
Styrene	ug/L	5	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	10	U	500	U	4	U
Tetrachloroethene (PCE)	ug/L	5	1	U	1	U	1	U	5	U	2	U	4	U	2	U	1	U	**3.8**	**J**	**380**	**J**	**33**	
Toluene	ug/L	5	1	U	1	U	1	U	**12**		2	U	4	U	2	U	1	U	**38**		**180**	**J**	**15**	
trans-1,2-Dichloroethene	ug/L	5	0.5	U	1	U	1	U	2.6	J	1	U	4	U	2	U	1	U	10	U	500	U	**9.1**	
trans-1,3-Dichloropropene	ug/L	0.4(a)	1	U	0.5	U	0.5	U	2.5	U	2	U	2	U	1	U	0.5	U	5	U	250	U	2	U
Trichloroethene (TCE)	ug/L	5	2	U	1	U	1	U	5	U	4	U	4	U	2	U	1	U	10	U	**3200**		**71**	
Trichlorofluoromethane	ug/L	5	**0.34**	**J**	2	U	2	U	10	U	**0.86**	**J**	8	U	4	U	2	U	20	U	1000	U	8	U
Vinyl chloride	ug/L	2	1	U	2	U	**550**		**23**		2	U	8	U	4	U	2	U	**72**		**3400**		**110**	
Xylene (Total)	ug/L	5	2.0	U	1	U	1	U	5	U	4.0	U	4	U	2	U	1	U	**33**		500	U	**16**	

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/June 2004/February 2023 Addendum.

Appendix A

CUSTODIAL RECORD

PERTINENT SITE DOCUMENTS

CHEM-CORE SITE (NYSDEC SITE NO. 915176)

- Phase I and II RI Report, Chem-Core Site, Site Number 9-15-176 (NYSDEC, 2002).
- Feasibility Study Report, Chem-Core Site, Site Number 9-15-176 (URS, 2002).
- Record of Decision, Chem-Core Site, City of Buffalo, Erie County, New York, Site Number 9-15-176 (NYSDEC, 2003).
- Remedial Design Investigation Report, Chem-Core Site, Site Number 9-15-176 (NYSDEC, 2005).
- Design Engineering Report, Chem-Core Site, Site Number 9-15-176 (NYSDEC, 2005).
- Final Remediation Report, Chem-Core Site, City of Buffalo, Erie County, New York, Site Number 9-15-176 (NYSDEC, 2007).
- Bioremediation Pilot Study Report, Chem-Core Site, Site Number 9-15-176 (URS, 2007).
- Operations and Maintenance Manual. Chem-Core Site, Site Number 9-15-176 (Mid Atlantic Environmental).
- System Decommissioning Report, Chem-Core Site, Site Number 9-15-176 (EA Engineering, 2011).
- Final Report on 1st Chemical Injection, Chem-Core Site, Site Number 9-15-176 (Empire Geo Services Inc., 2012).
- Final Report on 2nd Chemical Injection, Chem-Core Site, Site Number 9-15-176 (Empire Geo Services Inc., 2013).
- Final Report on 3rd Chemical Injection, Chem-Core Site, Site Number 9-15-176 (Empire Geo Services Inc., 2014).
- Deed Restriction, Chem-Core Site, Site Number 9-15-176 (NYSDEC, 2020).
- Site Management Plan, Chem-Core Site, Site Number 9-15-176 (TRC, 2022).
- Fact Sheet, Chem-Core Site, Site Number 9-15-176 (NYSDEC, 2022).

Appendix B

Data Usability Summary Report

Site: SMP B - ChemCore
Laboratory: Eurofins TestAmerica, Amherst, NY
SDG No.: 480-186529-1
Parameter: Volatile Organic Compounds (VOCs)
Data Reviewer: Amy Bass/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: July 15, 2021

Samples Reviewed and Evaluation Summary

13 / Groundwater: CC-MW-4D, CC-MW-4S, CC-MW-05, CC-MW-06, CC-MW-07, CC-MW-08D, CC-MW-08S, CC-MW-9, CC-MW-10, CC-MW-20, CC-MW-21, CC-MW-22, CC-DUPE-1*

1 / Trip Blank: TRIP BLANK

*Field duplicate of CC-MW-08D

The above-listed trip blank and groundwater samples were collected on June 22-24, 2021 and were analyzed for VOCs by SW-846 Method 8260C. The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005),* November 2020, modified for the SW-846 methodology utilized.

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) 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. No qualifications were required due to sampling error. Qualifications applied to the data due to 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) by the laboratory.

These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect results for dichlorodifluoromethane in select samples were qualified as estimated (UJ) due to continuing calibration (CC) nonconformances. 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 package was a complete Level IV data deliverable package, with the following exception.

- The laboratory did not report LCS and MS/MSD percent recoveries (%Rs) and/or relative percent differences (RPDs) for total xylenes on the summary forms. The %Rs and RPDs were calculated during validation and were within the laboratory acceptance criteria; no validation actions were required on this basis.

Holding Times and Sample Preservation

Holding time and sample preservation criteria were met for all samples.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

The percent relative standard deviations, coefficients of determination, and relative response factors (RRFs) were within the acceptance criteria in the initial calibrations associated with the samples in this data set. The RRFs were within the method acceptance criteria in the CC standards. The following table summarizes the percent differences or percent drifts (%Ds) that did not meet the method acceptance criteria in the CC standards, the associated samples, and the validation actions.

CC	Analyte	%D	Validation Actions
CCVIS 480-587545/3 06/30/2021 @09:47	Dichlorodifluoromethane	-24.2	The nondetect results for dichlorodifluoromethane in the associated samples were qualified as estimated (UJ).
Associated samples: CC-MW-4D, CC-MW-4S, CC-MW-05, CC-MW-08D, CC-MW-08S, CC-MW-9, CC-MW-10, CC-MW-20, CC-MW-21, CC-MW-22, CC-DUPE-1, TRIP BLANK			

Blanks

Target analytes were not detected in the laboratory method blanks.

Methylene chloride (0.46 J µg/L) was detected in the trip blank. The positive results for methylene chloride in samples CC-MW-08D, CC-MW-08S, CC-MW-10, CC-MW-21, CC-MW-22, and CC-DUPE-1 were qualified as nondetect (U) at the QL. Qualification of the positive results for methylene chloride in samples CC-MW-9 and CC-MW-20 was not required since the concentrations exceeded 2× the trip blank concentration. Qualification of the data for the remaining samples was not required since methylene chloride was not detected.

Surrogate Recoveries

The surrogate %Rs were within the laboratory acceptance criteria.

LCS Results

The LCS %Rs were within the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample CC-MW-08D. The following table summarizes the MS/MSD %Rs that did not meet the laboratory acceptance criteria, the parent sample for the MS/MSD analysis, and the resulting validation actions. All MS/MSD RPDs met the laboratory acceptance criteria.

Analyte	MS %R	MSD %R	MS/MSD %R QC Limits	Validation Action
1,1,1-Trichloroethane	137	135	73-126	Qualification of the data was not required since the noted analytes were nondetect in the parent sample.
1,1-Dichloroethane	123	121	77-120	
Cyclohexane	136	142	59-135	
Methyl tert-butyl ether	128	–	77-120	
trans-1,2-Dichloroethene	134	132	73-127	
MS/MSD Parent Sample: CC-MW-08D				
–: Met Criteria				

Internal Standards

All internal standard criteria were met.

Field Duplicate Results

Samples CC-MW-08D and CC-DUPE-1 were submitted as the field duplicate pair with this sample set. Methylene chloride was the only target analyte reported in samples CC-MW-08D and CC-DUPE-1, and these results were qualified as nondetect (U) in both samples based on trip blank contamination. Therefore, the results were in acceptable agreement.

Sample Results and Reported Quantitation Limits

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

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

The following table summarizes the dilutions performed.

Parameter	Sample ID	Dilution	Reason for Dilution
VOCs	CC-MW-07	2-fold	Samples were diluted due to foaming at the time of purging during the original sample analysis.
	CC-MW-9	4-fold	
	CC-MW-20	20-fold	Samples were diluted due to the concentrations of target analytes which would have exceeded the calibration range if analyzed undiluted.
	CC-MW-21	2000-fold	
	CC-MW-22	5-fold	
	CC-MW-05	10-fold	Sample was diluted due to the concentrations of cis-1,2-dichloroethene and vinyl chloride which exceeded the calibration range in the undiluted analysis (also reported). The results of the undiluted and diluted analyses were combined during validation in order to report the lowest QL for each target analyte and all positive results within the calibration range.
	CC-MW-06	20-fold, 50-fold	Sample was diluted due to the concentrations of target analytes which would have exceeded the calibration range if analyzed undiluted. Further dilution was performed due to the concentration of 2-butanone which exceeded the calibration range in the initial dilution. The results of the two dilutions were combined during validation in order to report the lowest QL for each target analyte and all positive results within the calibration range.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-4S Lab Sample ID: 480-186529-1

Matrix: Water Lab File ID: D1921.D

Analysis Method: 8260C Date Collected: 06/22/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	0.74	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-4S Lab Sample ID: 480-186529-1

Matrix: Water Lab File ID: D1921.D

Analysis Method: 8260C Date Collected: 06/22/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 14:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.40	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-4D Lab Sample ID: 480-186529-2

Matrix: Water Lab File ID: D1922.D

Analysis Method: 8260C Date Collected: 06/22/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 15:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-4D Lab Sample ID: 480-186529-2

Matrix: Water Lab File ID: D1922.D

Analysis Method: 8260C Date Collected: 06/22/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 15:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-22 Lab Sample ID: 480-186529-3

Matrix: Water Lab File ID: D1923.D

Analysis Method: 8260C Date Collected: 06/22/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 15:36

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	77		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	200		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	5.8		5.0	1.1
78-87-5	1,2-Dichloropropane	33		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	15	J	50	15
71-43-2	Benzene	6.1		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
75-00-3	Chloroethane	120		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	18		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-71-8	Dichlorodifluoromethane	ND	UJ	5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-22 Lab Sample ID: 480-186529-3

Matrix: Water Lab File ID: D1923.D

Analysis Method: 8260C Date Collected: 06/22/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 15:36

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND ~~4.8~~	~~J~~ U	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	9.7		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	7.6		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	3.6	J	5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	37		5.0	4.5
1330-20-7	Xylenes, Total	10		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-21 Lab Sample ID: 480-186529-4

Matrix: Water Lab File ID: D1924.D

Analysis Method: 8260C Date Collected: 06/22/2021 16:40

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 15:58

Soil Aliquot Vol: Dilution Factor: 2000

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3500		2000	1600
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	420
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2000	620
79-00-5	1,1,2-Trichloroethane	ND		2000	460
75-34-3	1,1-Dichloroethane	1100	J	2000	760
75-35-4	1,1-Dichloroethene	ND		2000	580
120-82-1	1,2,4-Trichlorobenzene	ND		2000	820
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2000	780
106-93-4	1,2-Dibromoethane	ND		2000	1500
95-50-1	1,2-Dichlorobenzene	ND		2000	1600
107-06-2	1,2-Dichloroethane	ND		2000	420
78-87-5	1,2-Dichloropropane	ND		2000	1400
541-73-1	1,3-Dichlorobenzene	ND		2000	1600
106-46-7	1,4-Dichlorobenzene	ND		2000	1700
78-93-3	2-Butanone (MEK)	ND		20000	2600
591-78-6	2-Hexanone	ND		10000	2500
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10000	4200
67-64-1	Acetone	ND		20000	6000
71-43-2	Benzene	ND		2000	820
75-27-4	Bromodichloromethane	ND		2000	780
75-25-2	Bromoform	ND		2000	520
74-83-9	Bromomethane	ND		2000	1400
75-15-0	Carbon disulfide	ND		2000	380
56-23-5	Carbon tetrachloride	ND		2000	540
108-90-7	Chlorobenzene	ND		2000	1500
75-00-3	Chloroethane	ND		2000	640
67-66-3	Chloroform	ND		2000	680
74-87-3	Chloromethane	ND		2000	700
156-59-2	cis-1,2-Dichloroethene	60000		2000	1600
10061-01-5	cis-1,3-Dichloropropene	ND		2000	720
110-82-7	Cyclohexane	ND		2000	360
124-48-1	Dibromochloromethane	ND		2000	640
75-71-8	Dichlorodifluoromethane	ND	UJ	2000	1400
100-41-4	Ethylbenzene	ND		2000	1500
98-82-8	Isopropylbenzene	ND		2000	1600

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-21 Lab Sample ID: 480-186529-4

Matrix: Water Lab File ID: D1924.D

Analysis Method: 8260C Date Collected: 06/22/2021 16:40

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 15:58

Soil Aliquot Vol: Dilution Factor: 2000

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5000	2600
1634-04-4	Methyl tert-butyl ether	ND		2000	320
108-87-2	Methylcyclohexane	ND		2000	320
75-09-2	Methylene Chloride	~~1200~~ ND	~~J~~ U	2000	880
100-42-5	Styrene	ND		2000	1500
127-18-4	Tetrachloroethene	12000		2000	720
108-88-3	Toluene	ND		2000	1000
156-60-5	trans-1,2-Dichloroethene	ND		2000	1800
10061-02-6	trans-1,3-Dichloropropene	ND		2000	740
79-01-6	Trichloroethene	15000		2000	920
75-69-4	Trichlorofluoromethane	ND		2000	1800
75-01-4	Vinyl chloride	ND		2000	1800
1330-20-7	Xylenes, Total	ND		4000	1300

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-05 Lab Sample ID: 480-186529-5

Matrix: Water Lab File ID: D1925.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:30

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 16:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	75		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	1.7		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
~~156-59-2~~	~~cis-1,2-Dichloroethene~~	~~230~~	~~E~~	~~1.0~~	~~0.81~~
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-05 Lab Sample ID: 480-186529-5

Matrix: Water Lab File ID: D1925.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:30

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 16:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.1		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	*Vinyl chloride*	*580*	*E*	*1.0*	*0.90*
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-05 DL Lab Sample ID: 480-186529-5 DL

Matrix: Water Lab File ID: T4486.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:30

Sample wt/vol: 5(mL) Date Analyzed: 07/01/2021 13:16

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587733 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	67		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
106-93-4	1,2-Dibromoethane	ND		10	7.3
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	210		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
124-48-1	Dibromochloromethane	ND		10	3.2
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-05 DL Lab Sample ID: 480-186529-5 DL

Matrix: Water Lab File ID: T4486.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:30

Sample wt/vol: 5(mL) Date Analyzed: 07/01/2021 13:16

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587733 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	600		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-10 Lab Sample ID: 480-186529-6

Matrix: Water Lab File ID: D1926.D

Analysis Method: 8260C Date Collected: 06/23/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 16:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	0.60	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	4.1		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-10 Lab Sample ID: 480-186529-6

Matrix: Water Lab File ID: D1926.D

Analysis Method: 8260C Date Collected: 06/23/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 16:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND ~~0.53~~	~~J~~ U	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-08D Lab Sample ID: 480-186529-7

Matrix: Water Lab File ID: D1927.D

Analysis Method: 8260C Date Collected: 06/23/2021 13:55

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	~~F1~~	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND	~~F1~~	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND	~~F1~~	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-08D Lab Sample ID: 480-186529-7

Matrix: Water Lab File ID: D1927.D

Analysis Method: 8260C Date Collected: 06/23/2021 13:55

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND	~~F1~~	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND ~~0.71~~	~~J~~ U	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND	~~F1~~	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-08S Lab Sample ID: 480-186529-8

Matrix: Water Lab File ID: D1928.D

Analysis Method: 8260C Date Collected: 06/23/2021 15:10

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 17:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	0.99	J	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-08S Lab Sample ID: 480-186529-8

Matrix: Water Lab File ID: D1928.D

Analysis Method: 8260C Date Collected: 06/23/2021 15:10

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 17:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	~~0.81~~ ND	~~J~~ U	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	26		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	1.6		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-9 Lab Sample ID: 480-186529-9

Matrix: Water Lab File ID: D1929.D

Analysis Method: 8260C Date Collected: 06/23/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 17:50

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-71-8	Dichlorodifluoromethane	ND	UJ	4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
98-82-8	Isopropylbenzene	ND		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-9 Lab Sample ID: 480-186529-9

Matrix: Water Lab File ID: D1929.D

Analysis Method: 8260C Date Collected: 06/23/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 17:50

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	5.0		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-20 Lab Sample ID: 480-186529-10

Matrix: Water Lab File ID: D1930.D

Analysis Method: 8260C Date Collected: 06/24/2021 09:10

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 18:13

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	92		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	40		20	7.6
75-35-4	1,1-Dichloroethene	21		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
106-93-4	1,2-Dibromoethane	ND		20	15
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	ND		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
75-00-3	Chloroethane	ND		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	1300		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	6.4
75-71-8	Dichlorodifluoromethane	ND	UJ	20	14
100-41-4	Ethylbenzene	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-20 Lab Sample ID: 480-186529-10

Matrix: Water Lab File ID: D1930.D

Analysis Method: 8260C Date Collected: 06/24/2021 09:10

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 18:13

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	26
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	24		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	240		20	7.2
108-88-3	Toluene	ND		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	130		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	120		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-06 Lab Sample ID: 480-186529-11

Matrix: Water Lab File ID: T4487.D

Analysis Method: 8260C Date Collected: 06/24/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 07/01/2021 13:39

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587733 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	130		20	7.6
75-35-4	1,1-Dichloroethene	ND		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
106-93-4	1,2-Dibromoethane	ND		20	15
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	*2-Butanone (MEK)*	*16000*	*E*	*200*	*26*
591-78-6	2-Hexanone	390		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	6000		200	60
71-43-2	Benzene	ND		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
75-00-3	Chloroethane	9.8	J	20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	360		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	6.4
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-06 Lab Sample ID: 480-186529-11

Matrix: Water Lab File ID: T4487.D

Analysis Method: 8260C Date Collected: 06/24/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 07/01/2021 13:39

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587733 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	26
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	13	J	20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	ND		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	55		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	104		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-06 DL Lab Sample ID: 480-186529-11 DL

Matrix: Water Lab File ID: T4516.D

Analysis Method: 8260C Date Collected: 06/24/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 11:51

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		50	41
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16
79-00-5	1,1,2-Trichloroethane	ND		50	12
75-34-3	1,1-Dichloroethane	130		50	19
75-35-4	1,1-Dichloroethene	ND		50	15
120-82-1	1,2,4-Trichlorobenzene	ND		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	ND		50	20
106-93-4	1,2-Dibromoethane	ND		50	37
95-50-1	1,2-Dichlorobenzene	ND		50	40
107-06-2	1,2-Dichloroethane	ND		50	11
78-87-5	1,2-Dichloropropane	ND		50	36
541-73-1	1,3-Dichlorobenzene	ND		50	39
106-46-7	1,4-Dichlorobenzene	ND		50	42
78-93-3	2-Butanone (MEK)	16000		500	66
591-78-6	2-Hexanone	310		250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	110
67-64-1	Acetone	5900		500	150
71-43-2	Benzene	ND		50	21
75-27-4	Bromodichloromethane	ND		50	20
75-25-2	Bromoform	ND		50	13
74-83-9	Bromomethane	ND		50	35
75-15-0	Carbon disulfide	ND		50	9.5
56-23-5	Carbon tetrachloride	ND		50	14
108-90-7	Chlorobenzene	ND		50	38
75-00-3	Chloroethane	21	J	50	16
67-66-3	Chloroform	ND		50	17
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	370		50	41
10061-01-5	cis-1,3-Dichloropropene	ND		50	18
110-82-7	Cyclohexane	ND		50	9.0
124-48-1	Dibromochloromethane	ND		50	16
75-71-8	Dichlorodifluoromethane	ND		50	34
100-41-4	Ethylbenzene	ND		50	37
98-82-8	Isopropylbenzene	ND		50	40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-06 DL Lab Sample ID: 480-186529-11 DL

Matrix: Water Lab File ID: T4516.D

Analysis Method: 8260C Date Collected: 06/24/2021 10:00

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 11:51

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		130	65
1634-04-4	Methyl tert-butyl ether	ND		50	8.0
108-87-2	Methylcyclohexane	ND		50	8.0
75-09-2	Methylene Chloride	ND		50	22
100-42-5	Styrene	ND		50	37
127-18-4	Tetrachloroethene	ND		50	18
108-88-3	Toluene	ND		50	26
156-60-5	trans-1,2-Dichloroethene	ND		50	45
10061-02-6	trans-1,3-Dichloropropene	ND		50	19
79-01-6	Trichloroethene	ND		50	23
75-69-4	Trichlorofluoromethane	ND		50	44
75-01-4	Vinyl chloride	60		50	45
1330-20-7	Xylenes, Total	ND		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-07 Lab Sample ID: 480-186529-12

Matrix: Water Lab File ID: T4488.D

Analysis Method: 8260C Date Collected: 06/24/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 07/01/2021 14:01

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587733 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
75-00-3	Chloroethane	1.5	J	2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-MW-07 Lab Sample ID: 480-186529-12

Matrix: Water Lab File ID: T4488.D

Analysis Method: 8260C Date Collected: 06/24/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 07/01/2021 14:01

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587733 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-DUPE-1 Lab Sample ID: 480-186529-13

Matrix: Water Lab File ID: D1933.D

Analysis Method: 8260C Date Collected: 06/24/2021 08:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 19:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: CC-DUPE-1 Lab Sample ID: 480-186529-13

Matrix: Water Lab File ID: D1933.D

Analysis Method: 8260C Date Collected: 06/24/2021 08:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 19:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	~~0.55~~ ND	~~J~~ U	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-186529-14

Matrix: Water Lab File ID: D1934.D

Analysis Method: 8260C Date Collected: 06/24/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-186529-14

Matrix: Water Lab File ID: D1934.D

Analysis Method: 8260C Date Collected: 06/24/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/30/2021 19:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 587545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.46	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

QC NONCONFORMANCE DOCUMENTATION

FORM VII

GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Lab Sample ID: CCVIS 480-587545/3 Calibration Date: 06/30/2021 09:47

Instrument ID: HP5975D Calib Start Date: 05/25/2021 11:30

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/25/2021 14:08

Lab File ID: D1908.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		1.212	0.1000	19.0	25.0	-24.2	50.0
Chloromethane	Ave	2.140	1.878	0.1000	21.9	25.0	-12.3	20.0
Vinyl chloride	Ave	1.707	1.610	0.1000	23.6	25.0	-5.7	20.0
Butadiene	Ave	1.168	1.230		26.3	25.0	5.3	20.0
Bromomethane	Ave	1.009	0.9570	0.1000	23.7	25.0	-5.2	50.0
Chloroethane	Ave	0.7827	0.8453	0.1000	27.0	25.0	8.0	50.0
Trichlorofluoromethane	Ave	1.767	1.629	0.1000	23.0	25.0	-7.8	20.0
Dichlorofluoromethane	Ave	2.361	2.193		23.2	25.0	-7.1	20.0
Ethyl ether	Ave	1.132	1.316		29.1	25.0	16.2	20.0
~~Acrolein~~	Ave	0.0996	0.0668		83.9	125	~~-32.9~~	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		1.224	0.1000	24.1	25.0	-3.7	20.0
1,1-Dichloroethene	Lin1		1.221	0.1000	26.4	25.0	5.7	20.0
Acetone	Ave	0.6109	0.5942	0.1000	122	125	-2.7	50.0
Iodomethane	Ave	1.990	2.296		28.9	25.0	15.4	20.0
Carbon disulfide	Ave	3.080	3.575	0.1000	29.0	25.0	16.1	20.0
~~Allyl chloride~~	Ave	2.135	2.564		30.0	25.0	~~20.1~~*	20.0
Methyl acetate	Ave	1.560	1.440	0.1000	46.2	50.0	-7.7	50.0
Methylene Chloride	Lin1		1.558	0.1000	27.9	25.0	11.6	20.0
~~2-Methyl-2-propanol~~	Ave	0.1835	0.1005		137	250	~~-45.3~~	50.0
Methyl tert-butyl ether	Ave	2.082	2.081	0.1000	25.0	25.0	-0.0	20.0
trans-1,2-Dichloroethene	Ave	1.170	1.393	0.1000	29.8	25.0	19.1	20.0
Acrylonitrile	Ave	0.7472	0.7248		243	250	-3.0	20.0
Hexane	Ave	2.103	2.387		28.4	25.0	13.5	20.0
1,1-Dichloroethane	Ave	2.595	2.758	0.2000	26.6	25.0	6.3	20.0
Vinyl acetate	Ave	4.217	3.992		47.3	50.0	-5.3	20.0
2,2-Dichloropropane	Ave	0.7721	0.8450		27.4	25.0	9.4	20.0
cis-1,2-Dichloroethene	Ave	1.491	1.540	0.1000	25.8	25.0	3.3	20.0
2-Butanone (MEK)	Ave	1.063	0.9726	0.1000	114	125	-8.5	20.0
Chlorobromomethane	Ave	0.8394	0.8731		26.0	25.0	4.0	20.0
Tetrahydrofuran	Ave	0.6908	0.6318		45.7	50.0	-8.5	20.0
Chloroform	Ave	2.558	2.553	0.2000	25.0	25.0	-0.2	20.0
1,1,1-Trichloroethane	Ave	1.605	1.834	0.1000	28.6	25.0	14.3	20.0
Cyclohexane	Ave	1.596	1.907	0.1000	29.9	25.0	19.5	20.0
Carbon tetrachloride	Ave	1.635	1.752	0.1000	26.8	25.0	7.2	20.0
1,1-Dichloropropene	Ave	1.809	1.920		26.5	25.0	6.1	20.0
Isobutyl alcohol	Ave	0.1169	0.0987		527	625	-15.6	50.0
Benzene	Ave	5.181	5.530	0.5000	26.7	25.0	6.7	20.0
1,2-Dichloroethane	Ave	2.365	2.104	0.1000	22.2	25.0	-11.0	20.0
n-Heptane	Ave	2.664	2.862		26.9	25.0	7.4	20.0
Trichloroethene	Ave	1.456	1.490	0.2000	25.6	25.0	2.3	20.0

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D1935.D

Lab ID: 480-186529-7 MS Client ID: CC-MW-08D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	ND	34.2	137	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	ND	27.5	110	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	26.2	105	61-148	
1,1,2-Trichloroethane	25.0	ND	28.0	112	76-122	
1,1-Dichloroethane	25.0	ND	30.7	123	77-120	F1
1,1-Dichloroethene	25.0	ND	30.7	123	66-127	
1,2,4-Trichlorobenzene	25.0	ND	27.2	109	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	23.5	94	56-134	
1,2-Dibromoethane	25.0	ND	27.3	109	77-120	
1,2-Dichlorobenzene	25.0	ND	28.8	115	80-124	
1,2-Dichloroethane	25.0	ND	25.3	101	75-120	
1,2-Dichloropropane	25.0	ND	30.0	120	76-120	
1,3-Dichlorobenzene	25.0	ND	28.9	116	77-120	
1,4-Dichlorobenzene	25.0	ND	28.4	114	78-124	
2-Butanone (MEK)	125	ND	124	99	57-140	
2-Hexanone	125	ND	128	102	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	131	105	71-125	
Acetone	125	ND	121	97	56-142	
Benzene	25.0	ND	30.0	120	71-124	
Bromodichloromethane	25.0	ND	27.2	109	80-122	
Bromoform	25.0	ND	24.2	97	61-132	
Bromomethane	25.0	ND	27.6	110	55-144	
Carbon disulfide	25.0	ND	33.1	132	59-134	
Carbon tetrachloride	25.0	ND	29.6	118	72-134	
Chlorobenzene	25.0	ND	28.3	113	80-120	
Chloroethane	25.0	ND	31.8	127	69-136	
Chloroform	25.0	ND	28.1	113	73-127	
Chloromethane	25.0	ND	29.5	118	68-124	
cis-1,2-Dichloroethene	25.0	ND	29.2	117	74-124	
cis-1,3-Dichloropropene	25.0	ND	25.9	104	74-124	
Cyclohexane	25.0	ND	33.9	136	59-135	F1
Dibromochloromethane	25.0	ND	26.4	106	75-125	
Dichlorodifluoromethane	25.0	ND	21.9	88	59-135	
Ethylbenzene	25.0	ND	29.5	118	77-123	
Isopropylbenzene	25.0	ND	29.3	117	77-122	
Methyl acetate	50.0	ND	49.1	98	74-133	
Methyl tert-butyl ether	25.0	ND	32.1	128	77-120	F1
Methylcyclohexane	25.0	ND	32.6	130	68-134	
Methylene Chloride	25.0	0.71 J	31.2	122	75-124	
Styrene	25.0	ND	27.9	111	80-120	
Tetrachloroethene	25.0	ND	29.6	118	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D1935.D

Lab ID: 480-186529-7 MS Client ID: CC-MW-08D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	ND	29.1	116	80-122	
trans-1,2-Dichloroethene	25.0	ND	33.6	134	73-127	F1
trans-1,3-Dichloropropene	25.0	ND	25.3	101	80-120	
Trichloroethene	25.0	ND	29.1	116	74-123	
Trichlorofluoromethane	25.0	ND	28.2	113	62-150	
Vinyl chloride	25.0	ND	29.3	117	65-133	
Xylenes, Total	50.0	ND	58.8	118	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III

GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D1936.D

Lab ID: 480-186529-7 MSD Client ID: CC-MW-08D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	33.6	135	2	15	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	27.4	109	1	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3	101	3	20	61-148	
1,1,2-Trichloroethane	25.0	27.6	110	1	15	76-122	
1,1-Dichloroethane	25.0	30.3	121	1	20	77-120	F1
1,1-Dichloroethene	25.0	29.1	116	6	16	66-127	
1,2,4-Trichlorobenzene	25.0	27.0	108	1	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.3	93	1	15	56-134	
1,2-Dibromoethane	25.0	26.7	107	2	15	77-120	
1,2-Dichlorobenzene	25.0	28.0	112	3	20	80-124	
1,2-Dichloroethane	25.0	24.8	99	2	20	75-120	
1,2-Dichloropropane	25.0	29.6	118	1	20	76-120	
1,3-Dichlorobenzene	25.0	28.4	114	2	20	77-120	
1,4-Dichlorobenzene	25.0	28.1	113	1	20	78-124	
2-Butanone (MEK)	125	124	99	0	20	57-140	
2-Hexanone	125	127	102	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	131	105	0	35	71-125	
Acetone	125	121	97	0	15	56-142	
Benzene	25.0	29.7	119	1	13	71-124	
Bromodichloromethane	25.0	26.9	108	1	15	80-122	
Bromoform	25.0	23.7	95	2	15	61-132	
Bromomethane	25.0	23.7	95	15	15	55-144	
Carbon disulfide	25.0	30.4	122	8	15	59-134	
Carbon tetrachloride	25.0	31.9	128	7	15	72-134	
Chlorobenzene	25.0	28.0	112	1	25	80-120	
Chloroethane	25.0	28.4	114	11	15	69-136	
Chloroform	25.0	27.9	112	1	20	73-127	
Chloromethane	25.0	26.1	104	12	15	68-124	
cis-1,2-Dichloroethene	25.0	28.8	115	1	15	74-124	
cis-1,3-Dichloropropene	25.0	25.6	102	1	15	74-124	
Cyclohexane	25.0	35.4	142	4	20	59-135	F1
Dibromochloromethane	25.0	26.0	104	1	15	75-125	
Dichlorodifluoromethane	25.0	21.5	86	2	20	59-135	
Ethylbenzene	25.0	29.1	116	2	15	77-123	
Isopropylbenzene	25.0	29.3	117	0	20	77-122	
Methyl acetate	50.0	47.4	95	3	20	74-133	
Methyl tert-butyl ether	25.0	28.8	115	11	37	77-120	
Methylcyclohexane	25.0	32.2	129	1	20	68-134	
Methylene Chloride	25.0	29.8	116	5	15	75-124	
Styrene	25.0	27.1	109	3	20	80-120	
Tetrachloroethene	25.0	29.1	116	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-186529-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D1936.D

Lab ID: 480-186529-7 MSD Client ID: CC-MW-08D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	25.0	29.1	117	0	15	80-122	
trans-1,2-Dichloroethene	25.0	33.0	132	2	20	73-127	F1
trans-1,3-Dichloropropene	25.0	24.7	99	2	15	80-120	
Trichloroethene	25.0	28.8	115	1	16	74-123	
Trichlorofluoromethane	25.0	27.4	110	3	20	62-150	
Vinyl chloride	25.0	28.1	113	4	15	65-133	
Xylenes, Total	50.0	57.7	115	2	16	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

Data Usability Summary Report

Site: SMP B – ChemCore – Buffalo, NY
Laboratory: Pace Analytical Services – East Longmeadow, MA
SDG No.: 22K0296
Parameter: Volatile Organic Compounds (VOCs)
Data Reviewer: David DiGena-Segal/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: December 15, 2022

Samples Reviewed and Evaluation Summary

11 / Groundwater: CC-MW-4D, CC-MW-4S, CC-MW-05, CC-MW-06, CC-MW-07, CC-MW-09, CC-MW-10, CC-MW-20, CC-MW-21, CC-MW-22, CC-MW-DUPE*

1 / Trip Blank: Trip Blank

*Field duplicate of CC-MW-9

The above-listed trip blank and groundwater samples were collected on October 30-31, 2022 and were analyzed for VOCs by SW-846 Method 8260D. The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005),* November 2020, modified for the SW-846 methodology utilized.

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) and 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 result for acetone in sample CC-MW-DUPE was qualified as nondetect (U) due to trip blank contamination. This result can be used for project objectives as a nondetect, 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) by the laboratory. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

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

- The nondetect results for 1,4-dioxane in all samples were qualified as estimated (UJ) due to low relative response factors (RRFs) in initial and continuing calibrations. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The nondetect results for select VOCs were qualified as estimated (UJ) with a potential low bias in sample CC-MW-21 due to low MS and/or MSD recoveries. 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 package was a complete Level IV data deliverable package, with the following exception.

- The laboratory-reported analyte list in all SDGs did not match the target compound list (TCL). Results for o-xylenes and m,p-xylenes were not reported, although these are included on the TCL for 8260/VOC analysis; results for total xylenes were reported instead. Further, 1,4-dioxane was reported by the laboratory, although not included on the 8260/VOC TCL.

Holding Times and Sample Preservation

Holding time and sample preservation criteria were met for all samples.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All percent relative standard deviations were within the method acceptance criteria in the initial calibration (IC) associated with the samples in this data set. The following table summarizes the RRF that did not meet the acceptance criteria in the IC, the associated samples, and the validation actions.

IC/ Instrument	Analyte	Average RRF	Validation Actions
9/23/2022/ GCMSVOA2	1,4-Dioxane	0.004208	The nondetect results for 1,4-dioxane were qualified as estimated (UJ) in the associated samples. These results were not rejected since the percent recovery (%R) of 1,4-dioxane in the lowest calibration standard (95%) was >70%.
Associated samples: All samples in this data set.			

Initial calibration verification (ICV) standards were not reviewed or summarized in this report since the ICVs did not immediately precede any sample analyses.

The following table summarizes percent difference or percent drift (%D) values and RRFs for target compounds that did not meet the acceptance criteria in continuing calibration (CC) standards, the associated samples, and the validation actions.

CC ID	Analyte	%D	RRF	Validation Action
S078873-CCV1 11/03/2022 @10:53	Bromomethane	-20.6	-	The nondetect results for the listed VOCs were qualified as estimated (UJ) in the associated samples
	Chloromethane	-22.5	-	
	1,2-Dibromo-3-chloropropane (DBCP)	-22.6	-	
	1,4-Dioxane*	-	0.0034317	
Associated samples: All samples in this data set.-: Met criteria * These results were not rejected since the %R of 1,4-dioxane in the lowest initial calibration standard (95%) was >70%.				

Blanks

Target analytes were not detected in the laboratory method blanks. The following table summarizes the VOC detected in the trip blank.

Blank ID (Associated samples)	Compound	Blank Concentration (µg/L)	2x Blank Concentration (µg/L)	QL (µg/L)	Validation Action
Trip Blank	Acetone	2.4 J	4.8	50	The positive result for acetone in sample CC-MW-DUPE was qualified as nondetect (U) at the QL.
Associated samples: All samples in this data set					

Surrogate Recoveries

The surrogate %Rs were within the laboratory acceptance criteria in all samples in this data set.

LCS and LCSD Results

The LCS and LCSD %Rs and relative percent differences (RPDs) were within the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample CC-MW-21. The following table summarizes the MS/MSD %Rs that did not meet the laboratory acceptance criteria and the resulting validation actions. All MS/MSD RPDs met the laboratory acceptance criteria.

Analyte	MS %R	MSD %R	MS/MSD %R QC Limits	Validation Action
Bromomethane	53.7	54.7	70-130	The nondetect results for the listed VOCs in sample CC-MW-21 were qualified as estimated (UJ).
Chloromethane	62.5	63.2	70-130	

Analyte	MS %R	MSD %R	MS/MSD %R QC Limits	Validation Action
1,2-Dibromo-3-chloropropane (DBCP)	-	68.2	70-130	The nondetect results for the listed VOCs in sample CC-MW-21 were qualified as estimated (UJ).
1,4-Dioxane	30.0	38.3	70-130	
MS/MSD Parent Sample: CC-MW-21				
–: Met Criteria				

Internal Standards

All internal standard criteria were met.

Field Duplicate Results

Samples CC-MW-9 and CC-MW-DUPE were submitted as the field duplicate pair with this sample set. Target compounds were not detected in either sample. All criteria were met.

Sample Results and Reported Quantitation Limits

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

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

The following table summarizes the dilutions performed.

Parameter	Sample ID	Dilution	Reason for Dilution
VOCs	CC-MW-07	2-fold	Samples were diluted due to foaming at the time of purging during the original sample analysis.
	CC-MW-DUPE	2-fold	
	CC-MW-09	4-fold	
	CC-MW-06	5-fold	Samples were diluted due to the concentrations of target analytes which would have exceeded the calibration range if analyzed undiluted.
	CC-MW-21	500-fold	
	CC-MW-20	10-fold	
	CC-MW-22	4-fold	
	CC-MW-05	25-fold	Sample was diluted due to the concentration of vinyl chloride which exceeded the calibration range in the undiluted analysis. The results of the undiluted and diluted analyses were combined during validation in order to report the lowest QL for each target analyte and all positive results within the calibration range.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-10

Sample ID: 22K0296-01 | Start Date/Time: 10/30/2022 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 1:40:00PM

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	11/3/22	11/3/22 13:56	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Bromomethane	~~ND~~ UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Chlorobenzene	0.91	1.0	0.11	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Chloroethane	6.6	2.0	0.32	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2-Dichlorobenzene	0.14	1.0	0.12	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,4-Dichlorobenzene	0.39	1.0	0.13	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,1-Dichloroethane	0.30	1.0	0.14	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,4-Dioxane	~~ND~~ UJ	50	21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-10

Sample ID: 22K0296-01 | Start Date/Time: 10/30/2022 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 1:40:00PM

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	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.0	70-130		11/3/22 13:56
Toluene-d8	97.0	70-130		11/3/22 13:56
4-Bromofluorobenzene	98.4	70-130		11/3/22 13:56

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-09

Sample ID: 22K0296-02 | Start Date/Time: 10/30/2022 2:20:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 3:00:00PM

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	200	8.1	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Benzene	ND	4.0	0.80	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Bromochloromethane	ND	4.0	1.2	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Bromodichloromethane	ND	2.0	0.72	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Bromoform	ND	4.0	1.5	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Bromomethane	~~ND~~ UJ	8.0	6.2	µg/L	4	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 14:22	MFF
2-Butanone (MEK)	ND	80	6.5	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Carbon Disulfide	ND	20	5.8	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Carbon Tetrachloride	ND	20	0.66	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Chlorobenzene	ND	4.0	0.42	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Chlorodibromomethane	ND	2.0	0.89	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Chloroethane	ND	8.0	1.3	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Chloroform	ND	8.0	0.67	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Chloromethane	~~ND~~ UJ	8.0	2.1	µg/L	4	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Cyclohexane	ND	20	7.0	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	20	3.2	µg/L	4	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2-Dibromoethane (EDB)	ND	2.0	0.68	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2-Dichlorobenzene	ND	4.0	0.49	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,3-Dichlorobenzene	ND	4.0	0.47	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,4-Dichlorobenzene	ND	4.0	0.52	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	8.0	0.77	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,1-Dichloroethane	ND	4.0	0.57	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2-Dichloroethane	ND	4.0	1.2	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,1-Dichloroethylene	ND	4.0	0.57	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
cis-1,2-Dichloroethylene	ND	4.0	0.59	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
trans-1,2-Dichloroethylene	ND	4.0	0.67	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2-Dichloropropane	ND	4.0	0.72	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
cis-1,3-Dichloropropene	ND	2.0	0.63	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
trans-1,3-Dichloropropene	ND	2.0	0.67	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,4-Dioxane	~~ND~~ UJ	200	82	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Ethylbenzene	ND	4.0	0.86	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
2-Hexanone (MBK)	ND	40	4.5	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Isopropylbenzene (Cumene)	ND	4.0	0.43	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Methyl Acetate	ND	4.0	1.8	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	4.0	0.69	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Methyl Cyclohexane	ND	4.0	0.98	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Methylene Chloride	ND	20	0.94	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	40	5.1	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Styrene	ND	4.0	0.42	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,1,2,2-Tetrachloroethane	ND	2.0	0.51	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Tetrachloroethylene	ND	4.0	0.75	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Toluene	ND	4.0	0.90	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2,3-Trichlorobenzene	ND	20	1.2	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,2,4-Trichlorobenzene	ND	4.0	0.99	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-09

Sample ID: 22K0296-02 | Start Date/Time: 10/30/2022 2:20:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 3:00:00PM

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
1,1,1-Trichloroethane	ND	4.0	0.68	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,1,2-Trichloroethane	ND	4.0	0.73	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Trichloroethylene	ND	4.0	0.76	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Trichlorofluoromethane (Freon 11)	ND	8.0	0.70	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	0.91	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Vinyl Chloride	ND	8.0	0.83	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF
Xylenes (total)	ND	4.0	4.0	µg/L	4		SW-846 8260D	11/3/22	11/3/22 14:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.8	70-130		11/3/22 14:22
Toluene-d8	97.2	70-130		11/3/22 14:22
4-Bromofluorobenzene	100	70-130		11/3/22 14:22

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-05

Sample ID: 22K0296-03 | Start Date/Time: 10/30/2022 3:20:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 4:05:00PM

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	11/3/22	11/3/22 14:48	MFF
Benzene	1.2	1.0	0.20	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Bromomethane	~~ND~~ UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 14:48	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Chloroethane	2.0	2.0	0.32	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,1-Dichloroethane	46	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
cis-1,2-Dichloroethylene	25	1.0	0.15	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,4-Dioxane	~~ND~~ UJ	50	21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Methyl tert-Butyl Ether (MTBE)	0.55	1.0	0.17	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-05

Sample ID: 22K0296-03 | Start Date/Time: 10/30/2022 3:20:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 4:05:00PM

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	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF
~~Vinyl Chloride~~	~~470~~	~~2.0~~	~~0.21~~	~~µg/L~~	~~1~~	~~E~~	~~SW-846 8260D~~	~~11/3/22~~	~~11/3/22 14:48~~	~~MFF~~
Vinyl Chloride	550	50	5.2	µg/L	25		SW-846 8260D	11/4/22	11/5/22 5:34	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/3/22	11/3/22 14:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		11/3/22 14:48
1,2-Dichloroethane-d4	97.7	70-130		11/5/22 5:34
Toluene-d8	119	70-130		11/5/22 5:34
Toluene-d8	95.6	70-130		11/3/22 14:48
4-Bromofluorobenzene	98.4	70-130		11/3/22 14:48
4-Bromofluorobenzene	95.8	70-130		11/5/22 5:34

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-04D

Sample ID: 22K0296-04 | Start Date/Time: 10/30/2022 4:15:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 5:05:00PM

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	11/3/22	11/3/22 15:14	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Bromomethane	~~ND~~ UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 15:14	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,1-Dichloroethane	0.17	1.0	0.14	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
cis-1,2-Dichloroethylene	0.28	1.0	0.15	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 15:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,4-Dioxane	~~ND~~ UJ	50	21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-04D

Sample ID: 22K0296-04 | Start Date/Time: 10/30/2022 4:15:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 5:05:00PM

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	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Vinyl Chloride	0.34	2.0	0.21	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 15:14	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.8	70-130		11/3/22 15:14
Toluene-d8	97.2	70-130		11/3/22 15:14
4-Bromofluorobenzene	98.4	70-130		11/3/22 15:14

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-04S

Sample ID: 22K0296-05 | Start Date/Time: 10/30/2022 5:15:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 5:50:00PM

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	11/3/22	11/3/22 15:40	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Bromomethane	~~ND~~ UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 15:40	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,1-Dichloroethane	0.44	1.0	0.14	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
cis-1,2-Dichloroethylene	0.93	1.0	0.15	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 15:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,4-Dioxane	~~ND~~ UJ	50	21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Methyl tert-Butyl Ether (MTBE)	0.29	1.0	0.17	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-04S

Sample ID: 22K0296-05 | Start Date/Time: 10/30/2022 5:15:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 5:50:00PM

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	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/3/22	11/3/22 15:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		11/3/22 15:40
Toluene-d8	97.2	70-130		11/3/22 15:40
4-Bromofluorobenzene	99.7	70-130		11/3/22 15:40

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

Project Location: 1360 Niagra St, Buffalo, NY Sample Description: Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-06

Sample ID: 22K0296-06 Start Date/Time: 10/30/2022 6:05:00PM

Sample Matrix: Ground Water Stop Date/Time: 10/30/2022 6:50:00PM

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	1600	250	10	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Benzene	1.4	5.0	1.0	µg/L	5	J	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Bromochloromethane	ND	5.0	1.5	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Bromodichloromethane	ND	2.5	0.90	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Bromoform	ND	5.0	1.9	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Bromomethane	~~ND~~ UJ	10	7.7	µg/L	5	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
2-Butanone (MEK)	5000	100	8.1	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Carbon Disulfide	ND	25	7.2	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Carbon Tetrachloride	ND	25	0.82	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Chlorobenzene	ND	5.0	0.53	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Chlorodibromomethane	ND	2.5	1.1	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Chloroethane	9.3	10	1.6	µg/L	5	J	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Chloroform	ND	10	0.84	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Chloromethane	~~ND~~ UJ	10	2.6	µg/L	5	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Cyclohexane	ND	25	8.8	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	25	4.0	µg/L	5	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2-Dibromoethane (EDB)	ND	2.5	0.85	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2-Dichlorobenzene	ND	5.0	0.61	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,3-Dichlorobenzene	ND	5.0	0.59	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,4-Dichlorobenzene	ND	5.0	0.65	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	10	0.96	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,1-Dichloroethane	87	5.0	0.71	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2-Dichloroethane	ND	5.0	1.5	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,1-Dichloroethylene	1.4	5.0	0.71	µg/L	5	J	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
cis-1,2-Dichloroethylene	200	5.0	0.73	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
trans-1,2-Dichloroethylene	2.6	5.0	0.84	µg/L	5	J	SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2-Dichloropropane	ND	5.0	0.91	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
cis-1,3-Dichloropropene	ND	2.5	0.79	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
trans-1,3-Dichloropropene	ND	2.5	0.84	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,4-Dioxane	~~ND~~ UJ	250	100	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Ethylbenzene	ND	5.0	1.1	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
2-Hexanone (MBK)	320	50	5.6	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Isopropylbenzene (Cumene)	ND	5.0	0.54	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Methyl Acetate	32	5.0	2.3	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	5.0	0.86	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Methyl Cyclohexane	ND	5.0	1.2	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Methylene Chloride	ND	25	1.2	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	50	6.4	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Styrene	ND	5.0	0.53	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,1,2,2-Tetrachloroethane	ND	2.5	0.63	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Tetrachloroethylene	ND	5.0	0.94	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Toluene	12	5.0	1.1	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2,3-Trichlorobenzene	ND	25	1.5	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,2,4-Trichlorobenzene	ND	5.0	1.2	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-06

Sample ID: 22K0296-06 | Start Date/Time: 10/30/2022 6:05:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 6:50:00PM

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	5.0	0.84	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,1,2-Trichloroethane	ND	5.0	0.91	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Trichloroethylene	ND	5.0	0.95	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Trichlorofluoromethane (Freon 11)	ND	10	0.88	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	1.1	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Vinyl Chloride	23	10	1.0	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF
Xylenes (total)	ND	5.0	5.0	µg/L	5		SW-846 8260D	11/3/22	11/3/22 20:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.0	70-130		11/3/22 20:54
Toluene-d8	97.5	70-130		11/3/22 20:54
4-Bromofluorobenzene	100	70-130		11/3/22 20:54

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-07

Sample ID: 22K0296-07 | Start Date/Time: 10/30/2022 7:15:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 7:50:00PM

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	100	4.1	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Bromomethane	~~ND~~ UJ	4.0	3.1	µg/L	2	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:07	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Chloromethane	~~ND~~ UJ	4.0	1.0	µg/L	2	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	10	1.6	µg/L	2	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,1-Dichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
cis-1,2-Dichloroethylene	0.32	2.0	0.29	µg/L	2	J	SW-846 8260D	11/3/22	11/3/22 16:07	MFF
trans-1,2-Dichloroethylene	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,4-Dioxane	~~ND~~ UJ	100	41	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Tetrachloroethylene	ND	2.0	0.37	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-07

Sample ID: 22K0296-07 | Start Date/Time: 10/30/2022 7:15:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 7:50:00PM

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
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Trichloroethylene	ND	2.0	0.38	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Vinyl Chloride	0.86	4.0	0.42	µg/L	2	J	SW-846 8260D	11/3/22	11/3/22 16:07	MFF
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.1	70-130		11/3/22 16:07
Toluene-d8	96.4	70-130		11/3/22 16:07
4-Bromofluorobenzene	99.0	70-130		11/3/22 16:07

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-DUPE

Sample ID: 22K0296-08 | Start Date/Time: 10/30/2022 8:00:00AM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 9:00:00AM

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	100 U ~~4.4~~	100	4.1	µg/L	2	~~J~~	SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Bromomethane	~~ND~~ UJ	4.0	3.1	µg/L	2	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:33	MFF
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Chloromethane	~~ND~~ UJ	4.0	1.0	µg/L	2	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	10	1.6	µg/L	2	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,1-Dichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
cis-1,2-Dichloroethylene	ND	2.0	0.29	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
trans-1,2-Dichloroethylene	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,4-Dioxane	~~ND~~ UJ	100	41	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Tetrachloroethylene	ND	2.0	0.37	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-DUPE

Sample ID: 22K0296-08 | Start Date/Time: 10/30/2022 8:00:00AM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 9:00:00AM

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
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Trichloroethylene	ND	2.0	0.38	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Vinyl Chloride	ND	4.0	0.42	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	11/3/22	11/3/22 16:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.2	70-130		11/3/22 16:33
Toluene-d8	97.8	70-130		11/3/22 16:33
4-Bromofluorobenzene	99.2	70-130		11/3/22 16:33

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Project Location: 1360 Niagra St, Buffalo, NY Sample Description: Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: Trip Blank Sampled: 10/30/2022 00:00

Sample ID: 22K0296-09

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	2.4	50	2.0	µg/L	1	J	SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Bromomethane	~~ND~~ UJ	2.0	1.5	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 13:04	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Chloromethane	~~ND~~ UJ	2.0	0.52	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	5.0	0.80	µg/L	1	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,4-Dioxane	~~ND~~ UJ	50	21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: Trip Blank | Sampled: 10/30/2022 00:00

Sample ID: 22K0296-09

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	0.17	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/3/22	11/3/22 13:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.1	70-130		11/3/22 13:04
Toluene-d8	97.8	70-130		11/3/22 13:04
4-Bromofluorobenzene	100	70-130		11/3/22 13:04

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-20

Sample ID: 22K0296-10 | Start Date/Time: 10/30/2022 4:05:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 4:40:00PM

Sample Flags: RL-12

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	20	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Bromomethane	~~ND~~ UJ	20	15	µg/L	10	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:59	MFF
2-Butanone (MEK)	18	200	16	µg/L	10	J	SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Chloroethane	89	20	3.2	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Chloromethane	~~ND~~ UJ	20	5.2	µg/L	10	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Cyclohexane	ND	50	18	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	50	8.0	µg/L	10	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,1-Dichloroethane	380	10	1.4	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,1-Dichloroethylene	ND	10	1.4	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
cis-1,2-Dichloroethylene	16	10	1.5	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
trans-1,2-Dichloroethylene	ND	10	1.7	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,4-Dioxane	~~ND~~ UJ	500	210	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Ethylbenzene	2.2	10	2.1	µg/L	10	J	SW-846 8260D	11/3/22	11/3/22 16:59	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Tetrachloroethylene	3.8	10	1.9	µg/L	10	J	SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Toluene	38	10	2.2	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-20

Sample ID: 22K0296-10 | Start Date/Time: 10/30/2022 4:05:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 4:40:00PM

Sample Flags: RL-12

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	16	10	1.7	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Trichloroethylene	ND	10	1.9	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Vinyl Chloride	72	20	2.1	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF
Xylenes (total)	33	10	10	µg/L	10		SW-846 8260D	11/3/22	11/3/22 16:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		11/3/22 16:59
Toluene-d8	97.9	70-130		11/3/22 16:59
4-Bromofluorobenzene	99.6	70-130		11/3/22 16:59

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-21

Sample ID: 22K0296-11 | Start Date/Time: 10/30/2022 4:50:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 5:35:00PM

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	25000	1000	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Benzene	ND	500	100	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Bromochloromethane	ND	500	150	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Bromodichloromethane	ND	250	90	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Bromoform	ND	500	190	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Bromomethane	~~ND~~ UJ	1000	770	µg/L	500	~~MS-07A, V-05~~	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
2-Butanone (MEK)	ND	10000	810	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Carbon Disulfide	ND	2500	720	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Carbon Tetrachloride	ND	2500	82	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Chlorobenzene	ND	500	53	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Chlorodibromomethane	ND	250	110	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Chloroethane	ND	1000	160	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Chloroform	ND	1000	84	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Chloromethane	~~ND~~ UJ	1000	260	µg/L	500	~~MS-07A, V-05~~	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Cyclohexane	ND	2500	880	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	2500	400	µg/L	500	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2-Dibromoethane (EDB)	ND	250	85	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2-Dichlorobenzene	ND	500	61	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,3-Dichlorobenzene	ND	500	59	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,4-Dichlorobenzene	ND	500	65	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	1000	96	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,1-Dichloroethane	1100	500	71	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2-Dichloroethane	ND	500	150	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,1-Dichloroethylene	200	500	71	µg/L	500	J	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
cis-1,2-Dichloroethylene	30000	500	73	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
trans-1,2-Dichloroethylene	ND	500	84	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2-Dichloropropane	ND	500	91	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
cis-1,3-Dichloropropene	ND	250	79	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
trans-1,3-Dichloropropene	ND	250	84	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,4-Dioxane	~~ND~~ UJ	25000	10000	µg/L	500	~~MS-07A~~	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Ethylbenzene	ND	500	110	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
2-Hexanone (MBK)	ND	5000	560	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Isopropylbenzene (Cumene)	ND	500	54	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Methyl Acetate	ND	500	230	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	500	86	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Methyl Cyclohexane	ND	500	120	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Methylene Chloride	ND	2500	120	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	5000	640	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Styrene	ND	500	53	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,1,2,2-Tetrachloroethane	ND	250	63	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Tetrachloroethylene	380	500	94	µg/L	500	J	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Toluene	180	500	110	µg/L	500	J	SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2,3-Trichlorobenzene	ND	2500	150	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,2,4-Trichlorobenzene	ND	500	120	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF

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

Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-21

Sample ID: 22K0296-11 | Start Date/Time: 10/30/2022 4:50:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 5:35:00PM

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	1400	500	84	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,1,2-Trichloroethane	ND	500	91	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Trichloroethylene	3200	500	95	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Trichlorofluoromethane (Freon 11)	ND	1000	88	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	110	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Vinyl Chloride	3400	1000	100	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF
Xylenes (total)	ND	500	500	µg/L	500		SW-846 8260D	11/3/22	11/3/22 21:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.6	70-130		11/3/22 21:20
Toluene-d8	97.8	70-130		11/3/22 21:20
4-Bromofluorobenzene	97.9	70-130		11/3/22 21:20

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-22

Sample ID: 22K0296-12 | Start Date/Time: 10/30/2022 5:40:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 6:15:00PM

Sample Flags: RL-12

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	40	200	8.1	µg/L	4	J	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Benzene	7.8	4.0	0.80	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Bromochloromethane	ND	4.0	1.2	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Bromodichloromethane	ND	2.0	0.72	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Bromoform	ND	4.0	1.5	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Bromomethane	~~ND~~ UJ	8.0	6.2	µg/L	4	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
2-Butanone (MEK)	28	80	6.5	µg/L	4	J	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Carbon Disulfide	ND	20	5.8	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Carbon Tetrachloride	ND	20	0.66	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Chlorobenzene	ND	4.0	0.42	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Chlorodibromomethane	ND	2.0	0.89	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Chloroethane	220	8.0	1.3	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Chloroform	ND	8.0	0.67	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Chloromethane	~~ND~~ UJ	8.0	2.1	µg/L	4	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Cyclohexane	ND	20	7.0	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	~~ND~~ UJ	20	3.2	µg/L	4	~~V-05~~	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2-Dibromoethane (EDB)	ND	2.0	0.68	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2-Dichlorobenzene	ND	4.0	0.49	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,3-Dichlorobenzene	ND	4.0	0.47	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,4-Dichlorobenzene	ND	4.0	0.52	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	8.0	0.77	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,1-Dichloroethane	140	4.0	0.57	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2-Dichloroethane	4.2	4.0	1.2	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,1-Dichloroethylene	1.6	4.0	0.57	µg/L	4	J	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
cis-1,2-Dichloroethylene	47	4.0	0.59	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
trans-1,2-Dichloroethylene	9.1	4.0	0.67	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2-Dichloropropane	30	4.0	0.72	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
cis-1,3-Dichloropropene	ND	2.0	0.63	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
trans-1,3-Dichloropropene	ND	2.0	0.67	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,4-Dioxane	~~ND~~ UJ	200	82	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Ethylbenzene	5.1	4.0	0.86	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
2-Hexanone (MBK)	ND	40	4.5	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Isopropylbenzene (Cumene)	0.44	4.0	0.43	µg/L	4	J	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Methyl Acetate	73	4.0	1.8	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Methyl tert-Butyl Ether (MTBE)	1.1	4.0	0.69	µg/L	4	J	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Methyl Cyclohexane	ND	4.0	0.98	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Methylene Chloride	2.0	20	0.94	µg/L	4	J	SW-846 8260D	11/3/22	11/3/22 17:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	40	5.1	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Styrene	ND	4.0	0.42	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,1,2,2-Tetrachloroethane	ND	2.0	0.51	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Tetrachloroethylene	33	4.0	0.75	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Toluene	15	4.0	0.90	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2,3-Trichlorobenzene	ND	20	1.2	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,2,4-Trichlorobenzene	ND	4.0	0.99	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF

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Project Location: 1360 Niagra St, Buffalo, NY | Sample Description: | Work Order: 22K0296

Date Received: 11/2/2022

Field Sample #: CC-MW-22

Sample ID: 22K0296-12 | Start Date/Time: 10/30/2022 5:40:00PM

Sample Matrix: Ground Water | Stop Date/Time: 10/30/2022 6:15:00PM

Sample Flags: RL-12

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	22	4.0	0.68	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,1,2-Trichloroethane	ND	4.0	0.73	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Trichloroethylene	71	4.0	0.76	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Trichlorofluoromethane (Freon 11)	ND	8.0	0.70	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	0.91	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Vinyl Chloride	110	8.0	0.83	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF
Xylenes (total)	16	4.0	4.0	µg/L	4		SW-846 8260D	11/3/22	11/3/22 17:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.9	70-130		11/3/22 17:25
Toluene-d8	98.2	70-130		11/3/22 17:25
4-Bromofluorobenzene	99.9	70-130		11/3/22 17:25

QC NONCONFORMANCE DOCUMENTATION

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory: Pace New England
Work Order: 22K0296
Client: NYDEC_TRC Environmental Corporation- Clifton Park
Project: ChemCore_CAT B - CO SMPB0001
Calibration: 2200668
Instrument: GCMSVOA2
Calibration Date: 9/23/2022 10:27:32AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
1,3-Dichlorobenzene	1.205725	6.3			20	
1,4-Dichlorobenzene	1.220462	8.2			20	
trans-1,4-Dichloro-2-butene	0.4202342	8.7			20	
Dichlorodifluoromethane (Freon 12)	0.5245523	6.4			20	
1,1-Dichloroethane	0.93662	9.7			20	
1,2-Dichloroethane	0.5011401	9.8			20	
1,1-Dichloroethylene	0.8406581	8.1			20	
cis-1,2-Dichloroethylene	0.9069879	9.4			20	
trans-1,2-Dichloroethylene	0.7958999	10.2			20	
Dichlorofluoromethane (Freon 21)	0.8677409	4.9			20	
1,2-Dichloropropane	0.3595268	9.8			20	
1,3-Dichloropropane	0.4279134	13.3			20	
2,2-Dichloropropane	0.6950154	5.4			20	
1,1-Dichloropropene	0.6097073	6.9			20	
cis-1,3-Dichloropropene	0.4543908	10.4			20	
trans-1,3-Dichloropropene	0.3954146	13.4			20	
Diethyl Ether	0.4498622	7.4			20	
Difluorochloromethane (Freon 22)	0.9947701	5.5			20	
Diisopropyl Ether (DIPE)	2.546082	6.7			20	
1,4-Dioxane	4.207708E-03	4.9			20	
Ethanol	1.265842E-02	15.9			20	
Ethyl Acetate	0.9540238	3.5			20	
Ethylbenzene	2.559739	9.5			20	
Hexachlorobutadiene	0.3320099	13.8			20	
2-Hexanone (MBK)	0.4046183	7.7			20	
Iodomethane	0.6095881	13.1			20	
Isopropylbenzene (Cumene)	2.737554	8.5			20	
p-Isopropyltoluene (p-Cymene)	2.23095	9.8			20	
Methyl Acetate	0.8029664	6.0			20	
Methyl tert-Butyl Ether (MTBE)	1.219111	6.6			20	
Methyl Cyclohexane	0.5137859	8.5			20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K0296
Client:	NYDEC_TRC Environmental Corporation- Clifton	Project:	ChemCore_CAT B - CO SMPB0001
Instrument ID:	GCMSVOA2	Calibration:	2200668
Lab File ID:	B22V30705.D	Calibration Date:	09/23/22 10:27
Sequence:	S078873	Injection Date:	11/03/22
Lab Sample ID:	S078873-CCV1	Injection Time:	10:53

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100	92.1	0.238786	0.2199441		-7.9	20	
Benzene	A	10.0	8.58	1.649064	1.415689		-14.2	20	
Bromochloromethane	A	10.0	9.91	0.1968477	0.1950112		-0.9	20	
Bromodichloromethane	A	10.0	8.56	0.3900733	0.3339429		-14.4	20	
Bromoform	A	10.0	8.86	0.4587575	0.4064318		-11.4	20	
Bromomethane	A	10.0	7.94	0.2509831	0.1993611		-20.6	20	*
2-Butanone (MEK)	A	100	92.8	0.3571896	0.33158		-7.2	20	
Carbon Disulfide	A	100	86.7	1.177679	1.021275		-13.3	20	
Carbon Tetrachloride	A	10.0	8.89	0.6726032	0.5980513		-11.1	20	
Chlorobenzene	A	10.0	10.6	1.499661	1.591459		6.1	20	
Chlorodibromomethane	A	10.0	8.88	0.3179661	0.2824449		-11.2	20	
Chloroethane	A	10.0	9.21	0.3886458	0.3578388		-7.9	20	
Chloroform	A	10.0	8.46	0.7874059	0.6657571		-15.4	20	
Chloromethane	A	10.0	7.75	1.066904	0.827108		-22.5	20	*
Cyclohexane	A	10.0	8.72	1.425292	1.242363		-12.8	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	7.74	0.1224495	9.474314E-02		-22.6	20	*
1,2-Dibromoethane (EDB)	A	10.0	9.58	0.2706643	0.2592747		-4.2	20	
1,2-Dichlorobenzene	A	10.0	9.88	1.087871	1.07517		-1.2	20	
1,3-Dichlorobenzene	A	10.0	9.59	1.205725	1.156808		-4.1	20	
1,4-Dichlorobenzene	A	10.0	9.83	1.220462	1.199936		-1.7	20	
Dichlorodifluoromethane (Freon 12)	A	10.0	9.41	0.5245523	0.4935232		-5.9	20	
1,1-Dichloroethane	A	10.0	8.92	0.93662	0.8351338		-10.8	20	
1,2-Dichloroethane	A	10.0	9.58	0.5011401	0.4802133		-4.2	20	
1,1-Dichloroethylene	A	10.0	9.15	0.8406581	0.7689048		-8.5	20	
cis-1,2-Dichloroethylene	A	10.0	9.29	0.9069879	0.8425015		-7.1	20	
trans-1,2-Dichloroethylene	A	10.0	9.32	0.7958999	0.7415849		-6.8	20	
1,2-Dichloropropane	A	10.0	9.56	0.3595268	0.3438855		-4.4	20	
cis-1,3-Dichloropropene	A	10.0	8.60	0.4543908	0.3907954		-14.0	20	
trans-1,3-Dichloropropene	A	10.0	8.41	0.3954146	0.3326398		-15.9	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K0296
Client:	NYDEC_TRC Environmental Corporation- Clifton	Project:	ChemCore_CAT B - CO SMPB0001
Instrument ID:	GCMSVOA2	Calibration:	2200668
Lab File ID:	B22V30705.D	Calibration Date:	09/23/22 10:27
Sequence:	S078873	Injection Date:	11/03/22
Lab Sample ID:	S078873-CCV1	Injection Time:	10:53

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	100	81.6	4.207708E-03	3.431738E-03		-18.4	20
Ethylbenzene	A	10.0	10.4	2.559739	2.648255		3.5	20
2-Hexanone (MBK)	A	100	93.2	0.4046183	0.3771013		-6.8	20
Isopropylbenzene (Cumene)	A	10.0	9.94	2.737554	2.721625		-0.6	20
Methyl Acetate	A	10.0	9.36	0.8029664	0.7518259		-6.4	20
Methyl tert-Butyl Ether (MTBE)	A	10.0	8.43	1.219111	1.027336		-15.7	20
Methyl Cyclohexane	A	10.0	9.29	0.5137859	0.477432		-7.1	20
Methylene Chloride	A	10.0	9.07	0.9862663	0.8944285		-9.3	20
4-Methyl-2-pentanone (MIBK)	A	100	95.5	0.541737	0.5173383		-4.5	20
Styrene	A	10.0	10.3	1.704195	1.750208		2.7	20
1,1,2,2-Tetrachloroethane	A	10.0	9.42	0.7038898	0.6631529		-5.8	20
Tetrachloroethylene	A	10.0	10.3	0.2627327	0.2717905		3.4	20
Toluene	A	10.0	9.68	1.184721	1.146632		-3.2	20
1,2,3-Trichlorobenzene	A	10.0	8.55	0.5344218	0.4568347		-14.5	20
1,2,4-Trichlorobenzene	A	10.0	9.09	0.6532933	0.5938832		-9.1	20
1,1,1-Trichloroethane	A	10.0	9.03	0.7059811	0.6375062		-9.7	20
1,1,2-Trichloroethane	A	10.0	9.35	0.2405517	0.2249682		-6.5	20
Trichloroethylene	A	10.0	9.71	0.2898346	0.2814266		-2.9	20
Trichlorofluoromethane (Freon 11)	A	10.0	9.40	0.6600919	0.6205878		-6.0	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.87	0.38434	0.3794282		-1.3	20
Vinyl Chloride	A	10.0	9.14	0.6770396	0.6190308		-8.6	20
m+p Xylene	A	20.0	20.5	2.033565	2.081296		2.3	20
o-Xylene	A	10.0	10.1	2.086783	2.104251		0.8	20
1,2-Dichloroethane-d4	A	25.0	24.0	0.6928696	0.6666624		-3.8	
Toluene-d8	A	25.0	24.4	1.237958	1.209075		-2.3	
4-Bromofluorobenzene	A	25.0	24.8	0.9618698	0.9521831		-1.0	

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

CC-MW-21

Laboratory:	Pace New England	Work Order:	22K0296
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	ChemCore_CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B321977	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B321977-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22K0296-11
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
Acetone	50000	ND	40700	81.4		70 - 130
Benzene	5000	ND	4350	87.0		70 - 130
Bromochloromethane	5000	ND	4840	96.7		70 - 130
Bromodichloromethane	5000	ND	4340	86.8		70 - 130
Bromoform	5000	ND	4370	87.4		70 - 130
Bromomethane	5000	ND	2680	53.7	*	70 - 130
2-Butanone (MEK)	50000	ND	41900	83.8		70 - 130
Carbon Disulfide	50000	ND	43900	87.7		70 - 130
Carbon Tetrachloride	5000	ND	4640	92.8		70 - 130
Chlorobenzene	5000	ND	5190	104		70 - 130
Chlorodibromomethane	5000	ND	4320	86.4		70 - 130
Chloroethane	5000	ND	4900	98.1		70 - 130
Chloroform	5000	ND	4360	87.3		70 - 130
Chloromethane	5000	ND	3120	62.5	*	70 - 130
Cyclohexane	5000	ND	4450	89.0		70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	5000	ND	3530	70.6		70 - 130
1,2-Dibromoethane (EDB)	5000	ND	4600	92.1		70 - 130
1,2-Dichlorobenzene	5000	ND	4640	92.8		70 - 130
1,3-Dichlorobenzene	5000	ND	4520	90.5		70 - 130
1,4-Dichlorobenzene	5000	ND	4670	93.4		70 - 130
Dichlorodifluoromethane (Freon 12)	5000	ND	4700	93.9		70 - 130
1,1-Dichloroethane	5000	1100	5680	91.6		70 - 130
1,2-Dichloroethane	5000	ND	4580	91.6		70 - 130
1,1-Dichloroethylene	5000	200	5000	96.0		70 - 130
cis-1,2-Dichloroethylene	5000	30300	34900	90.8		70 - 130
trans-1,2-Dichloroethylene	5000	ND	4690	93.8		70 - 130
1,2-Dichloropropane	5000	ND	4680	93.7		70 - 130
cis-1,3-Dichloropropene	5000	ND	4010	80.2		70 - 130
trans-1,3-Dichloropropene	5000	ND	3860	77.3		70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CC-MW-21

Laboratory:	Pace New England	Work Order:	22K0296
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	ChemCore_CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B321977	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B321977-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22K0296-11
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
1,4-Dioxane	50000	ND	15000	30.0	*	70 - 130
Ethylbenzene	5000	ND	5160	103		70 - 130
2-Hexanone (MBK)	50000	ND	44400	88.8		70 - 130
Isopropylbenzene (Cumene)	5000	ND	4940	98.8		70 - 130
Methyl Acetate	5000	ND	4480	89.6		70 - 130
Methyl tert-Butyl Ether (MTBE)	5000	ND	4040	80.8		70 - 130
Methyl Cyclohexane	5000	ND	4460	89.3		70 - 130
Methylene Chloride	5000	ND	4570	91.4		70 - 130
4-Methyl-2-pentanone (MIBK)	50000	ND	45500	91.0		70 - 130
Styrene	5000	ND	4900	98.0		70 - 130
1,1,2,2-Tetrachloroethane	5000	ND	4500	90.1		70 - 130
Tetrachloroethylene	5000	380	5550	103		70 - 130
Toluene	5000	180	4890	94.2		70 - 130
1,2,3-Trichlorobenzene	5000	ND	4000	80.1		70 - 130
1,2,4-Trichlorobenzene	5000	ND	4160	83.1		70 - 130
1,1,1-Trichloroethane	5000	1380	5950	91.4		70 - 130
1,1,2-Trichloroethane	5000	ND	4550	91.0		70 - 130
Trichloroethylene	5000	3200	8400	104		70 - 130
Trichlorofluoromethane (Freon 11)	5000	ND	4980	99.6		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5000	ND	4950	99.0		70 - 130
Vinyl Chloride	5000	3380	8120	94.6		70 - 130
Xylenes (total)	15000	ND	15200	102		0 - 200

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CC-MW-21

Laboratory:	Pace New England	Work Order:	22K0296
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	ChemCore_CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B321977	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B321977-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22K0296-11
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Acetone	50000	40300	80.7		0.851	30	70 - 130
Benzene	5000	4400	88.0		1.14	30	70 - 130
Bromochloromethane	5000	4730	94.6		2.20	30	70 - 130
Bromodichloromethane	5000	4260	85.3		1.74	30	70 - 130
Bromoform	5000	4320	86.5		1.04	30	70 - 130
Bromomethane	5000	2740	54.7	*	1.85	30	70 - 130
2-Butanone (MEK)	50000	41200	82.4		1.78	30	70 - 130
Carbon Disulfide	50000	45200	90.5		3.11	30	70 - 130
Carbon Tetrachloride	5000	4420	88.5		4.74	30	70 - 130
Chlorobenzene	5000	5230	105		0.768	30	70 - 130
Chlorodibromomethane	5000	4380	87.7		1.49	30	70 - 130
Chloroethane	5000	4720	94.5		3.74	30	70 - 130
Chloroform	5000	4360	87.3		0.00	30	70 - 130
Chloromethane	5000	3160	63.2	*	1.11	30	70 - 130
Cyclohexane	5000	4480	89.6		0.672	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	5000	3410	68.2	*	3.46	30	70 - 130
1,2-Dibromoethane (EDB)	5000	4580	91.7		0.435	30	70 - 130
1,2-Dichlorobenzene	5000	4810	96.2		3.60	30	70 - 130
1,3-Dichlorobenzene	5000	4620	92.3		1.97	30	70 - 130
1,4-Dichlorobenzene	5000	4770	95.4		2.12	30	70 - 130
Dichlorodifluoromethane (Freon 12)	5000	4590	91.8		2.26	30	70 - 130
1,1-Dichloroethane	5000	5740	92.8		1.05	30	70 - 130
1,2-Dichloroethane	5000	4700	94.0		2.59	30	70 - 130
1,1-Dichloroethylene	5000	5060	97.3		1.29	30	70 - 130
cis-1,2-Dichloroethylene	5000	35600	106		2.14	30	70 - 130
trans-1,2-Dichloroethylene	5000	4790	95.8		2.11	30	70 - 130
1,2-Dichloropropane	5000	4670	93.4		0.321	30	70 - 130
cis-1,3-Dichloropropene	5000	4090	81.8		1.98	30	70 - 130
trans-1,3-Dichloropropene	5000	3900	78.1		1.03	30	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CC-MW-21

Laboratory:	Pace New England	Work Order:	22K0296
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	ChemCore_CAT B - CO SMPB0001
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B321977	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B321977-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	22K0296-11
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
1,4-Dioxane	50000	19200	38.3	*	24.2	30	70 - 130
Ethylbenzene	5000	5120	102		0.778	30	70 - 130
2-Hexanone (MBK)	50000	43400	86.7		2.36	30	70 - 130
Isopropylbenzene (Cumene)	5000	4970	99.4		0.605	30	70 - 130
Methyl Acetate	5000	4130	82.6		8.13	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	5000	4010	80.2		0.745	30	70 - 130
Methyl Cyclohexane	5000	4460	89.2		0.112	30	70 - 130
Methylene Chloride	5000	4680	93.6		2.38	30	70 - 130
4-Methyl-2-pentanone (MIBK)	50000	44500	88.9		2.30	30	70 - 130
Styrene	5000	4980	99.6		1.62	30	70 - 130
1,1,2,2-Tetrachloroethane	5000	4540	90.7		0.664	30	70 - 130
Tetrachloroethylene	5000	5400	100		2.65	30	70 - 130
Toluene	5000	4960	95.6		1.42	30	70 - 130
1,2,3-Trichlorobenzene	5000	4170	83.4		4.04	30	70 - 130
1,2,4-Trichlorobenzene	5000	4400	88.0		5.73	30	70 - 130
1,1,1-Trichloroethane	5000	6100	94.5		2.57	30	70 - 130
1,1,2-Trichloroethane	5000	4550	91.0		0.00	30	70 - 130
Trichloroethylene	5000	8270	101		1.50	30	70 - 130
Trichlorofluoromethane (Freon 11)	5000	4890	97.8		1.82	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5000	4970	99.4		0.403	30	70 - 130
Vinyl Chloride	5000	8420	101		3.75	30	70 - 130
Xylenes (total)	15000	15300	102		0.687	200	0 - 200

Appendix C

New York State Department of Environmental Conservation
Chem-Core Site - Site No. 915176
City of Buffalo, New York

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-04S
SAMPLE TIME	1045
LOCATION ID	MW-04S
DATE	6/22/2021
START TIME	1010
END TIME	1050
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ■ OTHER 3"

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	25.05 FT	**FINAL DTW (BMP)**	25.7 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1010	**BEGIN PURGING**									
1020	25.7	250	13.2	3.143	7.18	1.62	0.4	-135.4		
1030	25.7	250	13.2	3.102	7.17	1.56	0	-134.7		
1035	25.7	250	13.5	2.989	7.16	1.58	0.23	-129		
1040	25.7	250	13.5	2.878	7.16	1.63	0.47	-122.1		
1045	25.7	250	13.5	2.786	7.16	1.67	0.49	-120.8		

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ■ NO ☐
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-04D
SAMPLE TIME	1200

LOCATION ID	MW-04D
DATE	6/22/2021
START TIME	1105
END TIME	1210
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ■ OTHER 3"

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	29.35 FT	**FINAL DTW (BMP)**	32.62 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1105	**BEGIN PURGING**									
1115	30.1	225	13.8	2.996	7.85	1.81	44.14	-152.8		
1125	30.8	225	13.8	2.98	7.84	1.57	39.61	-155.7		
1130	31.1	225	13.9	2.964	7.83	1.54	35.04	-154.4		
1135	31.45	225	13.9	2.917	7.8	1.51	33.69	-152.1		
1140	31.7	225	13.9	2.78	7.76	1.54	29.97	-142.7		
1145	32	225	14	2.466	7.66	1.72	24.19	-117.6		
1150	32.3	225	14	2.092	7.64	2.15	20.39	-90.4		
1155	32.5	225	14	2.031	7.64	2.21	19.41	-85.7		
1200	32.62	225	14	2.019	7.63	2.13	21.42	-83.9		

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ■ NO ☐
NUMBER OF GALLONS GENERATED: _____

NO-PURGE METHOD UTILIZED: YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-05
SAMPLE TIME	930

LOCATION ID	MW-05
DATE	6/23/2021
START TIME	855
END TIME	930
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	21.6 FT	**FINAL DTW (BMP)**	21.95 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.3 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
855	**BEGIN PURGING**									
905	21.9	275	12.5	1.299	7.13	1.9	128.33	-126.7		
915	21.95	275	12.5	1.3	7.14	1.7	22.94	-122.7		
920	21.95	275	12.4	1.301	7.12	1.6	19	-121.6		
925	21.95	275	12.4	1.301	7.12	1.58	18.82	-120.8		

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-06
SAMPLE TIME	1000

LOCATION ID	MW-06
DATE	6/24/2021
START TIME	925
END TIME	1005
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	14.3 FT	**FINAL DTW (BMP)**	15.5 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.2 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
925	**BEGIN PURGING**									
935	14.6	225	13.2	1.264	5.45	1.56	19.87	-37.3		
945	15.1	225	13.2	1.263	5.46	1.52	14.15	-39		
950	15.4	225	13.1	1.269	5.46	1.38	13.62	-40.1		
955	15.5	225	13.3	1.266	5.47	1.36	13.8	-40.9		

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-07
SAMPLE TIME	1100
LOCATION ID	MW-07
DATE	6/24/2021
START TIME	1030
END TIME	1105
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	18.6 FT	**FINAL DTW (BMP)**	19.5 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.2 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1030	**BEGIN PURGING**									
1040	18.9	225	15.5	0.524	7.13	1.48	28.56	-143.2		
1050	19.2	225	15.2	0.525	7.18	1.37	29.23	-147.2		
1055	19.5	225	15	0.524	7.19	1.32	29.72	-150.3		

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■ — NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐ — If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
	ChemCore	MW-8S	6/23/2021
PROJECT NUMBER		**START TIME**	**END TIME**
	386554.0000.0000 / 000012	1425	1515
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
CC-MW-08S	1510	ChemCore	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	13.9 FT	**FINAL DTW (BMP)**	14.3 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.5 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1425	**BEGIN PURGING**									
1435	14.1	250	14.1	2.265	6.98	1.86	21.72	0.1		
1445	14.2	250	14.1	2.253	7.01	1.69	40.07	-2.1		
1450	14.25	250	14	2.248	7	1.67	50.08	-2.6		
1455	14.3	250	14.2	2.24	7.01	1.67	22.2	-3.7		
1500	14.3	250	14.2	2.23	6.99	1.69	22.37	-2.9		
1505	14.3	250	14.1	2.224	6.99	1.73	22.15	0		

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
■ 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
■ WL METER TLERON
☐ PID _____
■ WQ METER YSI PRO DSS
☐ TURB. METER _____
☐ PUMP _____
☐ OTHER _____
☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	***
SAMPLE TIME	1355

LOCATION ID	MW-8D
DATE	6/23/2021
START TIME	1255
END TIME	1400
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ■ OTHER 3"

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	15.25 FT	**FINAL DTW (BMP)**	15.4 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.5 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1255	**BEGIN PURGING**									
1305	15.33	250	15.2	1.555	7.67	2.73	10.03	-43.5		
1315	15.35	250	15.2	1.575	7.29	1.91	9.37	-74.3		
1320	15.35	250	15	1.579	7.19	1.79	15.98	-87.4		
1325	15.35									HOSE DISCONNECTED
1330	15.35	250	14.5	1.79	7.06	2.02	6.24	-126.7		
1335	15.35	250	14.4	1.801	7.06	1.4	1.12	-144.8		
1340	15.35	250	14.3	1.811	7.06	1.32	0.59	-153.4		
1345	15.4	250	14.4	1.819	7.06	1.28	1.52	-158.5		
1350	15.4	250	14.2	1.82	7.07	1.28	0.98	-163.4		

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
■ 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
■ WL METER TLERON
☐ PID _____
■ WQ METER YSI PRO DSS
☐ TURB. METER _____
☐ PUMP _____
☐ OTHER _____
☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

▼(***): SAMPLES▼
CC-MW-08DMS
CC-MW-08DMSD
CC-DUPE-1 @800

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore	**LOCATION ID**	MW-09
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	6/23/2021
SAMPLE ID	CC-MW-09	**START TIME**	1000
SAMPLE TIME	1535	**END TIME**	1540
		SITE NAME/NUMBER	ChemCore
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	8.1 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.5 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1000	**BEGIN PURGING**									
1010	11.9	265	13.2	7.241	8.01	1.42	3.06	-317.6		
1020	13.8	265	13.5	7.192	7.96	1.29	3.69	-324.6		
1025	14.8	265	13.6	7.166	7.82	1.26	7.97	-314.5		
1030	15.8	265	13.7	7.16	7.81	1.24	5.87	-316		
1035	16.8	265	13.8	7.041	7.95	1.22	3.29	-325.2		
1040	17.75	265	13.4	6.931	8.07	1.22	6.71	-313.5		
1045	18.7	265	13.5	6.894	8.16	1.41	9.13	-281.9		
1050	19.5	265	13.2	7	8.07	1.37	10.18	-295		
1055										RAN DRY
1530	8.35									*11.15*

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■ — NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐ — If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-10
SAMPLE TIME	1200

LOCATION ID	MW-10
DATE	6/23/2021
START TIME	1110
END TIME	1205
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	10 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.2 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1110	**BEGIN PURGING**									
1120	10.1	240	16.4	0.821	7.37	1.45	72.84	-171.5		
1130	10.1	240	16.1	0.817	7.37	1.3	50.24	-167.9		
1135	10.1	240	16.1	0.816	7.38	1.24	38.14	-172.6		
1140	10.1	240	16.2	0.816	7.41	1.21	31.65	-180		
1145	10.1	240	16	0.816	7.44	1.19	26.25	-191.6		
1150	10.1	240	16.1	0.816	7.47	1.19	24.14	-196.5		
1155	10.1	240	16	0.816	7.48	1.18	23.99	-200		

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-20
SAMPLE TIME	910
LOCATION ID	MW-20
DATE	6/24/2021
START TIME	840
END TIME	915
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	22.05 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	50 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.2 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
840	**BEGIN PURGING**									
850	22.4	225	13.3	0.703	7.34	1.7	7.29	9.2		
900	22.66	225	13.3	0.703	7.31	1.53	4.21	-7.1		
905	22.72	225	13.2	0.702	7.31	1.5	3.58	-10.4		

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■ — NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐ — If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore	**LOCATION ID**	MW-21
PROJECT NUMBER	386554.0000.0000 / 000012	**START TIME**	1555
SAMPLE ID	CC-MW-21	**SAMPLE TIME**	1640
DATE	6/22/2021	**END TIME**	1640
SITE NAME/NUMBER	ChemCore	**PAGE**	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	23.95 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	50 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	387 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1555	**BEGIN PURGING**									
1605	24.1	250	12.7	1.219	6.77	1.31	8.71	-260		-2 FT OFF BOTTOM
1615	24.45	250	12.6	1.217	6.73	1.26	7.61	-279		
1620	24.55	250	12.8	1.218	6.7	1.25	7.68	-290		
1625	24.63	250	12.6	1.217	6.7	1.24	8.09	-299		
1630	24.75	250	12.6	1.217	6.7	1.23	7.58	-303		
1635	24.8	250	12.5	1.217	6.7	1.23	7.34	-305		

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	ChemCore
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-22
SAMPLE TIME	1525

LOCATION ID	MW-22
DATE	6/22/2021
START TIME	1435
END TIME	1530
SITE NAME/NUMBER	ChemCore
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	24.7 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	50 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	1.9 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1435	**BEGIN PURGING**									
1445	25.2	225	13	2.986	6.67	1.38	361	-326.9		
1455	25.7	225	13	3	6.69	1.29	217.25	-343.9		
1500	25.8	225	12.9	3.013	6.69	1.26	135.45	-346.3		
1505	25.9	225	12.9	3.022	6.69	1.24	131.5	-347		
1510	26.05	225	12.9	3.022	6.69	1.24	93.9	-347.6		
1515	26.1	225	13	3.029	6.69	1.23	92.7	-346.6		
1520	26.2	225	13.2	3.02	6.68	1.21	95.3	-346.9		

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ■
NUMBER OF GALLONS GENERATED: _____

NO-PURGE METHOD UTILIZED: YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

New York State Department of Environmental Conservation
Chem-Core Site - Site No. 915176
City of Buffalo, New York

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-04D
SAMPLE TIME	1705
LOCATION ID	MW-04D
DATE	10/30/2022
START TIME	1615
END TIME	1710
SITE NAME/NUMBER	Chem-Core
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ■ OTHER 3"

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	31.55 FT	**FINAL DTW (BMP)**	32.3 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.33 FT
WELL DEPTH (BMP)	45.0 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	13.45 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1630	**BEGIN PURGING**									
1640	31.55	225	14.7	2.057	7.67	1.29	49.97	-93.4		
1650	32.0	225	14.6	2.050	7.59	0.92	33.97	-99.1		
1655	32.2	225	14.7	2.049	7.58	0.90	28.01	-98.1		
1700	32.3	225	14.8	2.049	7.58	0.90	25.32	-97.2		
1705										

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	■	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED _____

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

SKETCH/NOTES

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

New York State Department of Environmental Conservation
Chem-Core Site - Site No. 915176
City of Buffalo, New York

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-04S
SAMPLE TIME	1750

LOCATION ID	MW-04S
DATE	10/30/2022
START TIME	1715
END TIME	1755
SITE NAME/NUMBER	Chem-Core
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ■ OTHER 3"

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	26.7 FT	**FINAL DTW (BMP)**	26.8 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.17 FT
WELL DEPTH (BMP)	40.3 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	13.6 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1715	**BEGIN PURGING**									
1725	26.7	225	14.4	1.952	7.36	3.14	13	-76.6		
1735	26.8	225	14.4	1.505	7.41	4.47	5.9	-37.2		
1740	26.8	225	14.4	1.446	7.44	4.25	3.59	-27.0		
1745	26.8	225	14.4	1.462	7.40	3.15	3.98	-24.6		
1750										

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	■	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-05
SAMPLE TIME	1605
LOCATION ID	MW-05
DATE	10/30/2022
START TIME	1520
END TIME	1610
SITE NAME/NUMBER	Chem-Core
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	22.9 FT	**FINAL DTW (BMP)**	23.2 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.17 FT
WELL DEPTH (BMP)	42.4 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	19.5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1530	**BEGIN PURGING**									
1540	22.9	225	14.6	1.547	7.33	1.30	7.07	-81.8		
1550	22.9	225	14.5	1.427	7.15	0.86	8.11	-91.7		
1555	23.15	225	14.5	1.510	7.12	0.81	7.42	-94.2		
1600	23.2	225	14.5	1.660	7.10	0.76	7.38	-97.6		
1605										

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core	**LOCATION ID**	MW-06
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	10/31/2022
SAMPLE ID	CC-MW-06	**START TIME**	1805
SAMPLE TIME	1850	**END TIME**	1855
		SITE NAME/NUMBER	Chem-Core
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	12.7 FT	**FINAL DTW (BMP)**	13.4 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.25 FT
WELL DEPTH (BMP)	38.0 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	25.3 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1815	**BEGIN PURGING**									
1825	12.7	225	12.9	0.931	5.68	1.57	499.58	-9.8		
1835	13.1	225	12.5	0.920	5.54	0.97	499.71	-8.1		
1840	13.3	225	12.5	0.918	5.53	0.87	501.92	-8.2		
1845	13.4	225	12.5	0.916	5.52	0.79	505.61	-8.7		
1850										
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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core	**LOCATION ID**	MW-07
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	10/31/2022
SAMPLE ID	CC-MW-07	**START TIME**	1915
SAMPLE TIME	1950	**END TIME**	1955
		SITE NAME/NUMBER	Chem-Core
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	14.2 FT	**FINAL DTW (BMP)**	14.8 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.92 FT
WELL DEPTH (BMP)	39.7 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	25.5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1915	**BEGIN PURGING**									
1925	14.2	225	12.5	0.438	6.86	0.99	10.86	-53.4		
1935	14.3	225	12.5	0.437	7.05	0.74	8.66	-87.0		
1940	14.5	225	12.5	0.437	7.09	0.71	8.71	-94.3		
1945	14.8	225	12.5	0.436	7.11	0.69	8.73	-97.7		
1950										

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
■ 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
■ WL METER TLERON
☐ PID _____
■ WQ METER YSI PRO DSS
☐ TURB. METER _____
☐ PUMP _____
☐ OTHER _____
☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____
NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

DUPE sample

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core	**LOCATION ID**	MW-09
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	10/30/2022
SAMPLE ID	CC-MW-09	**START TIME**	1420
SAMPLE TIME	1500	**END TIME**	1505
		SITE NAME/NUMBER	Chem-Core
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	16.5 FT	**FINAL DTW (BMP)**	16.8 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.38 FT
WELL DEPTH (BMP)	20.7 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	4.2 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1420	**BEGIN PURGING**									
1430	16.5	225	17.4	5.927	8.18	6.19	162.08	-71.9		
1440	16.7	225	17.4	5.986	8.26	3.66	31.22	-164.2		
1445	16.5	225	16.7	5.960	8.29	3.27	107.68	-157.4		
1450	16.9	225	16.7	5.942	8.28	2.26	106.66	-176.4		
1455	16.8	225	16.8	5.937	8.29	2.79	103.25	-175.6		
1500										

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core	**LOCATION ID**	MW-10
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	10/30/2022
SAMPLE ID	CC-MW-10	**START TIME**	1300
SAMPLE TIME	1340	**END TIME**	1345
		SITE NAME/NUMBER	Chem-Core
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	11.8 FT	**FINAL DTW (BMP)**	12.2 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.00 FT
WELL DEPTH (BMP)	52.6 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	40.8 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1300	**BEGIN PURGING**									
1310	11.8	225	15.6	0.837	7.54	0.90	89.02	-131.7		
1320	12	225	15.1	0.833	7.62	0.72	55.07	-183.4		
1325	12.1	225	15.1	0.842	7.65	0.62	47.00	-209.9		
1330	12.1	225	15.1	0.846	7.65	0.61	41.50	-217.5		
1335	12.2	225	15.2	0.851	7.65	0.60	40.99	-220.3		
1340										

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
■ 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
■ WL METER TLERON
☐ PID _____
■ WQ METER YSI PRO DSS
☐ TURB. METER _____
☐ PUMP _____
☐ OTHER _____
☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core	**LOCATION ID**	MW-20
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	10/31/2022
SAMPLE ID	CC-MW-20	**START TIME**	1605
SAMPLE TIME	1640	**END TIME**	1645
		SITE NAME/NUMBER	Chem-Core
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	24.1 FT	**FINAL DTW (BMP)**	24.5 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.42 FT
WELL DEPTH (BMP)	65.0 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	40.9 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.5 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1605	**BEGIN PURGING**									
1615	24.1	225	13.1	0.610	7.21	0.88	2.34	-315.5		
1625	24.25	225	13.0	0.612	7.22	0.71	2.63	-333.3		
1630	24.4	225	13.0	0.613	7.22	0.67	2.53	-338.1		
1635	24.5	225	13.0	0.614	7.22	0.65	2.33	-340.1		
1640										

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
- ■ 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
- ■ WL METER TLERON
- ☐ PID _____
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core
PROJECT NUMBER	386554.0000.0000 / 000012
SAMPLE ID	CC-MW-21
SAMPLE TIME	1735

LOCATION ID	MW-21
DATE	10/31/2022
START TIME	1650
END TIME	1740
SITE NAME/NUMBER	Chem-Core
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	25.4 FT	**FINAL DTW (BMP)**	25.8 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.42 FT
WELL DEPTH (BMP)	61.0 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	35.6 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	32.3 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1650	**BEGIN PURGING**									
1700	25.4	225	13.6	0.868	6.87	0.84	26.57	-309.8		
1710	25.6	225	13.5	0.856	6.79	0.67	26.54	-316.6		
1715	25.6	225	13.5	0.851	6.79	0.64	26.71	-318.4		
1720	25.8	225	13.5	0.853	6.83	0.69	26.62	-317.4		
1725										

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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ■
NUMBER OF GALLONS GENERATED: _____

NO-PURGE METHOD UTILIZED: YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

SKETCH/NOTES

MS/MSD sample

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Chem-Core	**LOCATION ID**	MW-22
PROJECT NUMBER	386554.0000.0000 / 000012	**DATE**	10/31/2022
SAMPLE ID	CC-MW-22	**START TIME**	1740
SAMPLE TIME	1815	**END TIME**	1820
		SITE NAME/NUMBER	Chem-Core
		PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ■ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ■ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	26.9 FT	**FINAL DTW (BMP)**	27.2 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	0.5 FT
WELL DEPTH (BMP)	61.0 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	34.1 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	3.9 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	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
1740	**BEGIN PURGING**									
1750	26.9	225	13.4	2.481	6.56	0.69	110.99	-328.1		
1800	27.1	225	13.4	2.474	6.55	0.65	78.79	-330.8		
1805	27.2	225	13.5	2.480	6.56	0.64	89.47	-331.8		
1810	27.2	225	13.5	2.478	6.56	0.64	89.31	-332.6		
1815										
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
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ■ BLADDER
  - MP50
- ☐ 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
- ■ WL METER TLERON
- ☐ PID
- ■ WQ METER YSI PRO DSS
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ■
NUMBER OF GALLONS GENERATED: _____

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐
If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Joshua J Yaeger Print Name: JOSH YAEGER

Checked By: Date:

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD
10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

New York State Department of Environmental Conservation
Chem-Core Site - Site No. 915176
City of Buffalo, New York
Monitoring Well Construction Summary - June 2021

Monitoring Well	Well Diameter (inches)	Well Material	Screened Formation	Depth to Water (feet bgs) *	Depth to Bottom (feet bgs)	Water Column (feet)	Elevation (feet AMSL)				Location (STD UTM)	
							Casing Top	Screen [1,2]		Groundwater Elevation	Northing	Easting
								Top	Bottom			
MW-04D	3	Steel	SILTY CLAY/BEDROCK	29.6	50.7	21.2	598.67	557.97	547.97	568.74	1064882.864	1064042.039
MW-04S	3	Steel	SILTY CLAY/BEDROCK	25.1	34.0	8.9	598.88	574.88	564.88	573.61	1064882.016	1064046.794
MW-05	6	Steel	SILTY CLAY/BEDROCK	22.5	34.4	11.9	594.79	570.39	560.39	572.12	1064926.553	1063864.570
MW-06	6	Steel	SILTY CLAY/BEDROCK	14.3	34.1	19.8	592.55	568.45	558.45	578.00	1064832.232	1063752.372
MW-07	6	Steel	SILTY CLAY/BEDROCK	18.5	34.1	15.7	592.53	568.43	558.43	573.11	1064762.937	1063737.645
MW-08D	3	PVC	SILTY CLAY/BEDROCK	15.1	44.7	29.6	587.50	552.80	542.80	572.40	1064444.677	1063735.802
MW-08S	6	Steel	SILTY CLAY/BEDROCK	13.7	24.6	10.9	587.82	573.22	563.22	574.12	1064443.284	1063740.854
MW-09	2	Steel	SILTY CLAY/BEDROCK	8.1	20.0	11.9	582.60	572.60	562.60	574.13	1064781.803	1063597.075
MW-10	6	Steel	SILTY CLAY/BEDROCK	9.9	41.7	31.9	582.87	551.17	541.17	572.97	1064868.721	1063624.929
MW-20	6	Steel	BEDROCK	21.7	47.5	25.7	595.12	557.62	547.62	573.00	1064756.340	1063705.580
MW-21	6	Steel	BEDROCK	23.7	48.8	25.2	596.88	558.08	548.08	572.76	1064752.630	1063740.730
MW-22	6	Steel	BEDROCK	24.8	48.4	23.6	596.84	558.44	548.44	571.54	1064743.300	1063842.250

Notes:

1. Bottom of screen starts at bottom of well
2. Top of screen is estimated to be 10 feet above the bottom of the well

AMSL = Above mean sea level
ft bgs = Feet below ground surface
PVC = Polyvinyl chloride
* = Measurements collected October 22 - 24, 2022

New York State Department of Environmental Conservation
Chem-Core Site - Site No. 915176
City of Buffalo, New York
Monitoring Well Construction Summary - October 2022

Monitoring Well	Well Diameter (inches)	Well Material	Screened Formation	Depth to Water (feet bgs) *	Depth to Bottom (feet bgs)	Water Column (feet)	Elevation (feet AMSL)				Location (STD UTM)	
							Casing Top	Screen [1,2]		Groundwater Elevation	Northing	Easting
								Top	Bottom			
MW-04D	3	Steel	SILTY CLAY/BEDROCK	31.6	45.0	13.4	598.67	563.67	553.67	566.70	1064882.864	1064042.039
MW-04S	3	Steel	SILTY CLAY/BEDROCK	26.7	40.3	13.6	598.88	568.58	558.58	572.05	1064882.016	1064046.794
MW-05	6	Steel	SILTY CLAY/BEDROCK	23.0	42.4	19.4	594.79	562.39	552.39	571.66	1064926.553	1063864.570
MW-06	6	Steel	SILTY CLAY/BEDROCK	12.9	38.0	25.2	592.55	564.55	554.55	579.45	1064832.232	1063752.372
MW-07	6	Steel	SILTY CLAY/BEDROCK	14.7	39.7	24.9	592.53	562.88	552.88	576.90	1064762.937	1063737.645
MW-08D	3	PVC	SILTY CLAY/BEDROCK	NM	NM	NM	587.50	552.80 **	542.80 **	NM	1064444.677	1063735.802
MW-08S	6	Steel	SILTY CLAY/BEDROCK	NM	NM	NM	587.82	573.22 **	563.22 **	NM	1064443.284	1063740.854
MW-09	2	Steel	SILTY CLAY/BEDROCK	10.8	20.7	9.9	582.60	571.90	561.90	571.45	1064781.803	1063597.075
MW-10	6	Steel	SILTY CLAY/BEDROCK	12.3	52.6	40.3	582.87	540.27	530.27	570.57	1064868.721	1063624.929
MW-20	6	Steel	BEDROCK	24.3	65.0	40.7	595.12	540.12	530.12	570.39	1064756.340	1063705.580
MW-21	6	Steel	BEDROCK	25.9	61.0	35.1	596.88	545.88	535.88	570.55	1064752.630	1063740.730
MW-22	6	Steel	BEDROCK	27.2	61.0	33.8	596.84	545.84	535.84	569.14	1064743.300	1063842.250

Notes:

1. Bottom of screen starts at bottom of well
2. Top of screen is estimated to be 10 feet above the bottom of the well

AMSL = Above mean sea level
ft bgs = Feet below ground surface
PVC = Polyvinyl chloride
* = Measurements collected October 30 - 31, 2022
** = Elevations based on measurements collected June 2021
= Wells inaccessible. Recommending to be decommissioned.