PERIODIC REVIEW REPORT

JANUARY 2021 – DECEMBER 2024

FORMER DIAMOND CLEANERS SITE
CITY OF ELMIRA, NEW YORK 14901
NYSDEC Site No. 808030
Work Assignment No. D009812-04

Prepared for:
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TRC Project No. 386554

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LIST OF ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
COCs	Contaminants of Concern
CVOCs	Chlorinated Volatile Organic Compounds
DCE	Cis 1,2-Dichloroethylene
DER	Division of Environmental Remediation
DTW	Depth to Water
DUSRs	Data Usability Summary Reports
ECs	Engineering Controls
EN	Environmental Notice
EPA	Environmental Protection Agency
FS	Feasibility Study
ft. bgs.	Feet Below Ground Surface
ICs	Institutional Controls
ID	Identification
ND	Not detected
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYS	New York State
OU	Operable Unit
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
PRR	Periodic Review Report
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
RI	Remedial Investigation
ROD	Record of Decision
SCG	Standard, Criteria and Guidance
SIM	Selected Ion Monitoring
SM	Site Management
SMP	Site Management Plan
SSDS	Sub-slab Depressurization System
TCE	Trichloroethene
TCL	Target Compound List
TICs	Tentatively Identified Compounds
TOC	Top of Casing
TRC	TRC Engineers, Inc.
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
WA	Work Assignment
µg/L	micrograms per liter

Executive Summary

Category	Summary/Results
Engineering Control (ECs)	• Site cover consisting of a minimum of a nine-foot layer of clean backfill topped with either gravel, asphalt pavement, or vegetated topsoil. • Groundwater Monitoring Well Network.
Institutional Control (ICs)	• Environmental Notice (2011) • Site Management Plan (2017, as amended 2022)
Site Classification	Class 4
Site Management Plan (SMP)	SMP Revision Number 0 – January 2015 SMP Revision Number 1 – February 2016 SMP Revision Number 2 – August 2017 SMP Addendum Number 1 – May 2022
Certification/Reporting Period	The Certification Period is defined as three years in the SMP. The SMP requires a Periodic Review Report (PRR) to be completed every three years. This PRR is the second to be completed for the Site since the SMP was approved in August 2017.
Inspection	**Frequency**
1. Site Inspection	Annually
Monitoring	**Frequency**
1. Groundwater	Every two years
Prior PRR Recommendations	The prior PRR, dated October 2021 and prepared for the December 2017 to December 2020 reporting period included the following recommendations: • Continue annual Site inspections and associated reporting, as per the SMP. • Continue the recording of groundwater level measurements at Site groundwater monitoring wells during each annual inspection, as per the SMP. • Continue biennial groundwater monitoring events, as per the SMP. • If levels of volatile organic compounds (VOCs) in groundwater remain elevated or continue to rise, consider further delineation. • Reduce the number of Site wells included in the inspection and monitoring events from the list of 21 wells specified in the SMP to wells MW-002, MW-003, MW-004, MW-006, MW-008, MW-009, MW-010, MW-013, MW-016, MW-017, MW-022, and MW-023.
Site Management Activities	Site management activities performed during this reporting period consisted of three Site inspections and two groundwater monitoring events, each including monitoring well gauging and groundwater sampling: • 10/28/2021 – Completion of a post-storm Site inspection with observations of general Site conditions after several storm events. • 6/23/2023 – Completion of a Site inspection and recording of the depth to groundwater and the depth to the bottom of six Site monitoring wells, as well as the collection of groundwater samples at each of the same six monitoring wells for laboratory analysis of Target Compound List VOCs. • 9/11/2024 – As part of development, construction of a new building at the 711 Benjamine St, Elmira, NY property by the City of Elmira School District was completed

	in 2024. MW-004 was abandoned in place since it was in the footprint of the new building, and a replacement well was installed in close proximity to the original well location. • 11/12/2024 – Completion of a Site inspection and recording of the depth to groundwater and the depth to the bottom of five Site monitoring wells, as well as the collection of groundwater samples at each of the same five monitoring wells for laboratory analysis of Target Compound List VOCs.
Significant Findings or Concerns	Elevated levels of chlorinated volatile organic compounds (CVOCs) were detected in MW-004 located to the southwest of the Site.
Recommendations	1. The Site inspection frequency should continue, as per the SMP (annually and following severe weather events, as needed, to certify that ICs/ECs are functioning as intended, a Site inspection report being completed following each inspection event). 2. Groundwater levels should continue to be measured at the Site monitoring wells, coincident with each Site inspection and groundwater monitoring event. 3. Based on elevated CVOC levels in MW-004, groundwater should continue to be monitored during the Site groundwater sampling events every two years. If levels stay elevated or continue to rise, further delineation may be necessary.
Cost Evaluation	The total cost of the site management activities during this reporting period was $107,802.00. This cost includes engineering (e.g., labor and expense) and subcontractor costs (e.g., laboratory, equipment, rentals, etc.). It should be noted that this total does not include any direct costs incurred by the NYSDEC.
Green and Sustainable Remediation Metrics	Minimal amounts (less than 50 pounds) of solid waste were generated on-Site during Site management activities this reporting period. Approximately 1,000 miles were driven during this reporting period for Site management activities. No public potable water was used during this reporting period for Site management activities. No land was disturbed on-Site during this reporting period. Additional details concerning green and sustainable remediation metrics are presented in **Appendix A**.

1.0 Introduction

This PRR has been prepared for the Former Diamond Cleaners Site (the Site) and covers the period of January 2021 through December 2024. This PRR was prepared in accordance with the New York State Department of Environmental Conservation Department of Environmental Remediation Work Assignment No. D009812-04 and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation. A summary of applicable Site and remedial program information is presented below:

Site Information			
Site Name:	Former Diamond Cleaners	**NYSDEC Site No:**	808030
Site Location:	717 Lake Street, Elmira, Chemung County, NY	**Remedial Program:**	Inactive Hazardous Waste Disposal
Site Type:	Dry Cleaner	**Classification:**	04
Parcel Identification(s):	89.11-3-83 (717 Lake Street), Chemung County Tax Maps	**Parcel Acreage / EE Acreage:**	0.36
Selected Remedy:	Excavation and cover system, groundwater treatment, groundwater monitoring	**Site COC(s):**	• VOCs
Current Remedial Program Phase:	Post RA Site Monitoring; Site Management	**Institutional Controls:**	• EN (2011) • SMP (2017) • SMP Addendum No. 1 (2022)
Post-Remediation Monitoring and Sampling Frequency:	Annual – Site inspection Every two years – Groundwater sampling	**Engineering Controls:**	• Site cover of clean backfill, which is covered with gravel or asphalt • Groundwater Monitoring Well Network
Monitoring Locations:	12 Monitoring Wells	**Required Reporting:**	PRR – Every three years

1.1 Current PRR Recommendations

- Annual Site inspections should continue to verify the ICs and ECs are in-place and effective and to observe any future development of the Site. One Site inspection report should also be completed following the inspection event.
- Water level measurements should continue to be collected at the site monitoring wells during inspection and groundwater monitoring events.
- Based on CVOC levels in MW-004, groundwater should continue to be monitored every two years during the Site groundwater sampling events. If CVOC levels stay elevated or continue to rise, further delineation may be necessary.

1.2 Site Location, Ownership, and Description

The Site is located at 717 Lake Street in the City of Elmira, Chemung County, New York and is approximately 0.36 acres in size. The Site is recognized as Tax Map ID # 89.11-3-83 on the Chemung County Tax Map. The current owner of the parcel is listed as the County of Chemung in the Chemung County Tax Records.

Site features include an asphalt parking lot for the Southern Tier Association for the Visually Impaired on the eastern portion of the property and a graveled and paved area on the western portion of the property.

The Site is bounded by Lake Street to the east, private residences and businesses to the south, Benjamin St. to the west, and the Southern Tier Association for the Visually Impaired to the north. Site Location and Site Layout maps are provided on **Figure 1** and **Figure 2**, respectively.

1.2 Investigation/Remedial History

The Former Diamond Cleaners Site location was used as a laundry and dry-cleaning operation by multiple operators between 1950 and 2001. Stoddard Solvent was used as a dry-cleaning agent in the early years of operation and PCE was used for the dry-cleaning operations at the Site from 1974 until 2001. The Site previously contained a one-story building with a grassy area west of the building, gravel parking area south of the building, and a paved parking area north of the building. The building structure was demolished by the NYSDEC in February 2012 prior to the Remedial Actions.

In 2001, Teeter Environmental Services, Inc. conducted a limited sub-surface investigation of the Site and an adjacent property at 706-710 Benjamin St., owned by the same party. Results indicated the soil and groundwater had been impacted by both chlorinated and non-chlorinated solvents (Stoddard Solvent) as well as petroleum contaminants. Chlorinated and non-chlorinated solvents were detected at concentrations in excess of New York State Class GA groundwater standards.

In November 2002, the former property owner submitted an application to enter the Voluntary Cleanup Program, however, the applicant terminated the agreement before it was signed in August 2003. In 2004, the NYSDEC listed the Site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York.

A remedial investigation and feasibility study (RI/FS) was performed by MACTEC from 2005 to 2006 for Operable Unit (OU) 1 – Source Area, in order to define the extent and nature of the contamination of the area surrounding and within the Site building. The RI included sampling of surface soil, sub-surface soil, soil gas, sub-slab vapor, and indoor air. Findings of the RI indicated that the Site source area was below the Site building and areas west of the Site building. Results of surface soil and sub-surface soil samples indicated that there were concentrations of PCE above the standards, criterion and guidances (SCGs) in 3 of the 10 surface soil samples and 6 of the 60 sub-surface soil samples. A PCE detection in soil gas resulted in sub-slab and indoor air sampling of the Site building and neighboring property on the southern boundary of the Site at 706-710 Benjamin St. (identified as Location 1 in the SMP). Sub-slab vapor and indoor air samples collected in the building at 706-710 Benjamin St. and at the Site's main building had PCE detections exceeding the State's Guidance on Evaluating Soil Vapor. The owner of Location 1 was subsequently given the opportunity for installation of a soil vapor mitigation system or sub-slab depressurization system (SSDS) at the property building; the owner declined the offer.

Based on the results of the RI and the associated FS for OU-1, the NYSDEC selected demolition of the Site building, excavation of contaminated soils exceeding remediation goals, and transportation and off-Site disposal of contaminated soil and building debris as the remedy for source area soils in a Record of Decision issued in March 2008.

An RI and FS was performed by MACTEC from 2008 to 2009 for OU-2 – Groundwater and Soil Vapor, in order to define the extent of contamination of areas surrounding the Site buildings, as well as the areas upgradient and downgradient from the Site. The RI included direct push investigation consisting of groundwater sampling, analysis of installed microwells to evaluate conditions downgradient of the Site, installation of 6 monitoring wells, and groundwater sampling of new and existing wells to evaluate groundwater conditions. Findings of the RI indicated that on-Site groundwater had been impacted by PCE, and its breakdown products related to the former dry cleaner. This groundwater contamination was also contributing to the soil vapor contamination identified in OU-1. The highest concentrations of contamination on-Site were found on the west side of the former Diamond Cleaner building near the former cleaning room, and off-Site west and across the street from the Site.

Based on the results of the RI and the associated FS for OU-2, the NYSDEC selected in-situ chemical oxidation and in-situ enhanced biodegradation as the remedy for groundwater and soil vapor in a Record of Decision issued in March 2010.

In March 2010, October 2010, and May 2012, MACTEC conducted a pre-design investigation during three separate mobilizations. The investigation consisted of activities designed to better define the lateral and vertical extent of soil contamination, collection of data necessary to evaluate the natural oxidant demand of the soil, determination of the ability of the aquifer to accept the injection of biological degradation material by completing a limited pilot study, and evaluation of groundwater quality in the underlying overburden aquifer prior to Site remedy implementation.

Remedial actions for OU-1 and OU-2 were conducted between February 2012 - June 2012 and July 2012 – September 2012, respectively. Completion of remedial actions for OU-1 and OU-2 were achieved in October 2012 and MACTEC completed the Final Engineering Report for the remedial actions in February 2013.

In 2014, two temporary soil vapor sampling points were installed and sampled at subsurface locations immediately north of the Site. Results from the soil vapor samples show detections of various VOC compounds, including PCE which was detected at 1,300 and at 5,000 $\mu g/m^3$. The NYSDEC made attempts to access the building adjacent to the vapor sampling points to conduct indoor air sampling. The owner of the building, which is occupied only intermittently as a social club, did not grant access for the sampling. The building owner also declined an offer from NYSDEC to install a SSDS. The current SMP notes that an SSDS offer will remain in place and an SSDS will be provided for the current building owners of either locations or future building owners at their request.

The initial SMP was implemented in December 2014 to manage the remaining on-Site contamination by establishing Institutional and Engineering Controls, media monitoring, performance of periodic inspections, and certification of results and submittal of Periodic Review Reports. The first revision of the SMP incorporated comments and was approved by NYSDEC in February 2016. The second revision of the SMP (current) incorporated additional NYSDOH comments and was approved by NYSDEC in August 2017. An addendum to the 2017 SMP included updated Site information and was approved by NYSDEC in May 2022.

In June 2018, the NYSDEC reclassified the Site from Class 2 (significant threat to public health or environment – action required) to Class 4 (site properly closed – requires continued management).

A custodial Record detailing known and available Site reports, is included in **Appendix B.**

1.3 Remaining Contamination

Remediation at the Site is complete. Prior to remediation, the primary contaminants of concern were PCE and its associated daughter products. Because the remedy resulted in contamination remaining at the Site that does not allow for unrestricted use, the Site management includes a monitoring plan to assess the performance and effectiveness of the remedy. Residual contamination in the groundwater is being managed under the Former Diamond Cleaners Site Management Plan.

1.4 Regulatory Requirements/Cleanup Goals

The 2012 remedial actions removed contaminated soil and building debris exceeding the remediation goals. Groundwater at the Site was treated in-situ via chemical injection of sodium permanganate. A summary of the remediation goals from the March 2008 ROD for OU-1 and the March 2010 ROD for OU-2 are as follows:

Eliminate or reduce to the extent practicable:

- The release of contaminants from the soil into groundwater that may create exceedances of groundwater standards;
- Soil vapor intrusion and exposures to building occupants;
- Current and potential exposures of persons at or around the Site to volatile organic compounds in groundwater or soil vapor.

Further, the cleanup goals for the Site include attaining to the extent practicable the following SCGs:

- Implementation of soil clean up objectives based on 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Table 375-6.8(b), Protection of Public Health, Protection of Groundwater for VOC contamination;
- Implementation of soil clean up objectives based on the current zoning of the property per 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Table 375-6.8(b), Protection of Public Health, Protection of Groundwater for VOC contamination;
- Ambient groundwater quality standards based on NYSDEC “Ambient Water Quality Standards and Guidance Values.”

2.0 Institutional and Engineering Control Plan Compliance

2.1 Institutional Controls

The Former Diamond Cleaners Site's inclusion on the Registry of Inactive Hazardous Waste Disposal Sites, RODs (OU-1 and OU-2), and Site SMP act as the Institutional Controls.

The RODs (OU-1 and OU-2) require the following ICs for the Site:

- Compliance with the EN and the SMP by the Grantor and the Grantor's successors and assigns.
- All ECs must be maintained as specified in the SMP. The NYSDEC is currently responsible for ECs.
- All Engineering Controls on the Controlled Property must be inspected and certified at a frequency and in a manner defined in the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined by the SMP.
- Data and information pertinent to site management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
- On and off-Site environmental monitoring devices, including but not limited to groundwater monitoring wells, will be protected, and replaced and necessary by the NYSDEC to ensure the devices function in the manner specified in the SMP.
- Institutional controls identified in the Environmental Notice may not be discontinued without an amendment or extinguishment of the EN.

The Site has a series of ICs in the form of Site restrictions. Adherence to the ICs is required by the EN. Applicable Site restrictions to the Controlled Property are:

- The use of groundwater underlying the property is prohibited without treatment rendering it safe for intended purpose.
- All future activities on the property that will encounter remaining contaminated groundwater are prohibited unless they are conducted in accordance with the SMP. Since the remedy resulted in contamination remaining at the Site that does not allow for unrestricted use, the SMP included a monitoring plan to assess the performance and effectiveness of the remedy.
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated.
- The property may only be used for commercial or industrial uses provided that the long-term ECs and ICs included in the SMP are employed.
- The property may not be used for a less restrictive use, such as unrestricted residential, without additional remediation and amendment of the EN by the Commissioner of the NYSDEC.
- Upon request, the owner of the Property shall provide information to the NYSDEC to assist the NYSDEC in providing a periodic certification, prepared, and submitted by a professional engineer or environmental professional. The periodic report certifies that, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls

were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. The NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that the NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.2 Engineering Controls

The ECs for the Site include the groundwater monitoring well network and Site cover. The cover consists of a minimum of nine feet of clean backfill (based on May 2015 groundwater level measurements; backfill above the water table is considered clean) consisting of crushed stone and common borrow soil meeting Unrestricted Use Soil Cleanup Objectives as described in NYSDEC 6 NYCRR Part 375 Table 375-6.8(a) and either a topsoil with vegetation, gravel, or asphalt pavement surface to eliminate current and potential exposures of persons at or around the Site to VOC compounds in groundwater.

3.0 Monitoring and Sampling Plan Compliance

The SMP (2017) and SMP Addendum No. 1 (2022) was prepared to manage remaining on-Site contamination and ensure that the remedy remains effective by restricting Site use, Site development and soil movement on the property. The SMP and SMP Addendum specify the following monitoring and sampling activities for the Site:

Summary of August 2017 SMP & 2022 SMP Addendum No. 1 Site Monitoring and Sampling Plan			
Site Management Activity	**Frequency**	**Location**	**Laboratory Analysis**
Site Inspection	Annual	Site properties	Not Applicable
Groundwater Sampling	Every two years	• MW-002 • MW-003 • MW-004 • MW-006 • MW-008 • MW-009 • MW-010 • MW-013 • MW-016 • MW-017 • MW-022 • MW-023	USEPA Method 8260 for VOCs.
PRR	Every three years	Not Applicable	Not Applicable
Groundwater Monitoring Report	Every two years	Not Applicable	Not Applicable

Notes:
USEPA – United States Environmental Protection Agency.
VOCs – Volatile Organic Compounds.
The 2022 SMP Addendum decreased the number of groundwater sampling locations from 21 to 12.

3.1 Site Inspection

TRC conducted a post-storm Site inspection on Thursday, October 28, 2021, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-Site monitoring wells, Site EC/ICs, and overall Site conditions following multiple storm events that occurred in the area.

TRC conducted a Site inspection on Tuesday, June 13, 2023, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-Site monitoring wells, overall Site conditions, and to collect groundwater samples from six of the twelve selected Site wells.

On Wednesday, September 11, 2024, monitoring well MW-004 was abandoned in place, and a replacement monitoring well was installed. This was completed to accommodate for the construction of a new building by the City of Elmira School District at the 711 Benjamin St., Elmira, NY property. The NYSDEC water well completion report for the installation of the replacement well can be found in **Appendix B**.

TRC conducted a Site inspection on Tuesday, November 12, 2024, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-Site monitoring wells, overall Site conditions, and to collect groundwater samples from five of the twelve selected Site wells.

A summary of the Site inspections is presented below:

Summary of Site Activities and Site Monitoring and Sampling October 2021, June 2023, and November 2024		
Site Management Activity	**Summary of Results**	**Maintenance/Corrective Measure**
Site and Monitoring Well Network Inspection	On October 28, 2021, no significant disturbances were noted during the post-storm inspection. The inspected Site wells appeared to be in good condition. Monitoring wells MW-003, MW-008, MW-010, and MW-013 were unable to be observed due to unsigned access agreements for the associated properties. MW-009 was not located and is presumed to be located under the access road to a newly constructed building. Monitoring well MW-022 was also not located due to landscaping and fill that has been laid over the area.	No routine maintenance or corrective measures needed at this time.
Groundwater gauging and sampling	On June 13, 2023, six Site monitoring wells (MW-002, MW-004, MW-006, MW-016, MW-017, and MW-023) were gauged for depth to water and sampled utilizing USEPA low-flow methods. On November 12, 2024, five Site monitoring wells (MW-002, MW-004, MW-006, MW-017, and MW-023) were gauged for depth to water, and sampled utilizing USEPA low-flow sampling methods. MW-016 was unable to be sampled due to the placement of a commercial dumpster on top of the well.	No routine maintenance or corrective measures needed at this time.

Field activity reports and photographic logs from the recent inspection activities can be found in **Appendix C**.

3.2 Groundwater Monitoring Summary

3.2.1 Groundwater Gauging

On June 13, 2023, six of the Site wells were gauged for depth to groundwater to evaluate groundwater flow direction. The groundwater surface contours with an interpretation of groundwater flow direction for the overburden wells is presented in **Figure 3**. The groundwater gauging and elevation measurements can be found in **Table 1**. A summary of the hydrogeological information is presented below:

June 2023 Hydrogeologic Summary			
Number of Gauged Wells	**Hydrogeologic Units**	**Hydrogeologic Strata**	**Monitoring Wells**
6	1	Overburden	12
Overburden Groundwater Elevation Range			
Lowest groundwater elevation: 842.6 feet AMSL (MW-23) Highest groundwater elevation: 843.49 feet AMSL (MW-006)			
Inferred Overburden Groundwater Flow Direction			
South Southeast			

On November 12, 2024, five of the Site wells were gauged for depth to groundwater to evaluate groundwater flow direction. The groundwater surface contours with an interpretation of groundwater flow direction for the overburden wells is presented on **Figure 4**. The groundwater gauging and elevation measurements can be found on **Table 2**. A summary of the hydrogeologic information is presented below:

November 2024 Hydrogeologic Summary			
Number of Gauged Wells	**Hydrogeologic Units**	**Hydrogeologic Strata**	**Monitoring Wells**
5	1	Overburden	12
Overburden Groundwater Elevation Range			
Lowest groundwater elevation: 841.11 feet AMSL (MW-004) Highest groundwater elevation: 842.5 feet AMSL (MW-006)			
Inferred Overburden Groundwater Flow Direction			
Southwest			

3.2.2 Groundwater Sampling

TRC collected groundwater samples from six monitoring wells utilizing standard low-flow sampling techniques on June 13, 2023, for routine monitoring. The locations of the Site monitoring wells can be found on **Figure 2**. Groundwater sampling logs can be found in **Appendix E**. All groundwater samples, in addition to QA/QC samples collected at the frequencies specified in the SMP, were submitted to Pace Laboratories for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs) via USEPA Method 8260. A summary of the analytical results for the VOCs can be found on **Table 3**.

TRC collected groundwater samples from five monitoring wells utilizing standard low-flow sampling techniques on November 12, 2024. Groundwater sampling logs can be found in **Appendix E**. All groundwater samples, in addition to QA/QC samples collected at the frequencies specified in the SMP, were submitted to Pace Laboratories for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs) via USEPA Method 8260. A summary of the analytical results for the VOCs can be found on **Table 4**.

Summaries of the June 2023 and November 2024 groundwater sampling information, and pertinent well details for each well are presented below:

	Summary of Groundwater Monitoring and Sampling Activities June 2023 and November 2024							
	Monitoring Well Details				**2023 and 2024 Groundwater Sampling Events**			
Well ID	**Northing***	**Easting***	**Screen Zone (ft. bgs)**	**Unit Screened**	**2023 DTW (ft. below TOC)**	**2024 DTW (ft. below TOC)**	**Analytes**	**Notes**
MW-002	764735.59	759865.46	14.00 – 23.50	Overburden	11.41	12.51	VOCs	
MW-003	764468.08	760027.58	14.00 – 23.50	Overburden	N/A	N/A	VOCs	Not sampled in 2023 or 2024 – No access
MW-004	764548.73	759920.06	11.5 – 21.00	Overburden	10.75	12.79	VOCs	
MW-006	764873.30	760175.71	9.75 – 19.75	Overburden	8.76	9.75	VOCs	
MW-008	754597.74	759983.96	12.00 – 22.00	Overburden	N/A	N/A	N/A	Not sampled in 2023 or 2024 – No access
MW-009	764663.53	759674.17	11.70 – 21.70	Overburden	N/A	N/A	PFAS, 1,4-Dioxane	Not found in 2023 or 2024
MW-010	764533.08	759834.54	12.00 – 22.00	Overburden	N/A	N/A	VOCs	Not sampled in 2023 or 2024 – No access
MW-013	764814.00	759915.80	24.00 – 29.00	Overburden	N/A	N/A	VOCs	Not sampled in 2023 or 2024 – No access
MW-016	764767.70	760022.20	12.00 – 22.00	Overburden	12.01	N/A	VOCs	Not Sampled in 2024
MW-017	764771.20	760020.70	24.00 – 29.00	Overburden	12.34	13.37	VOCs	
MW-022	764692.00	760102.50	12.00 – 22.00	Overburden	N/A	N/A	N/A	Not found in 2023 or 2024
MW-023	764690.00	760100.00	24.00 – 29.00	Overburden	11.79	11.94	VOCs	

Notes:
*Horizontal datum is based on NAD83. The New York State Coordinate System is in Central zone and measured in US Survey Feet.
DTW – Depth to water.
ft. bgs – Feet below ground surface.
TOC – Top of casing.
N/A – Not Available

A complete table with well construction details is in included in **Appendix B**.

3.2.3 Groundwater Sample Results

Groundwater analytical data for VOCs can be found in **Table 3** and **Table 4**. The DUSRs can be found in **Appendix D**. Detected compounds and compounds exceeding their respective SCGs for each well are illustrated on **Figure 5**. A summary of the 2023 and 2024 groundwater analytical results is presented below:

Exceedance Summary of Laboratory Analytical Results in Groundwater June 2023				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
VOCs				
Cis-1,2-Dichloroethene	5	ND – 28	MW-002	2/6
Tetrachloroethene	5	ND – 290	MW-004	4/6
Trichloroethene	5	ND – 9	MW-002	1/6

Notes:
ND - Not detected.

Exceedance Summary of Laboratory Analytical Results in Groundwater November 2024				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
VOCs				
Cis-1,2-Dichloroethene	5	0.22 – 30	MW-002	4/5
Tetrachloroethene	5	ND – 2,100	MW-004	3/5
Trichloroethene	5	0.17 – 12	MW-002	3/5

Notes:
ND - Not detected.

Trends for total CVOCs are used to evaluate the effectiveness of the Site remedy (e.g., source removal action and MNA). Trend graphs for total CVOCs in monitoring wells (MW-002, MW-004, MW-006, MW-016, MW-017, and MW-023) are presented on **Figure 6**. A discussion of the trends observed in each monitoring well is presented below. A plume map of total CVOCs was prepared to evaluate the current extent of CVOC impacts in groundwater and is presented on **Figure 7** and **8**.

Monitoring Well MW-002

Monitoring well MW-002 is located to the west of the Site and represents farthest side gradient monitoring well sampled at the Site during the reporting period. Historical concentrations in this monitoring well are historically less than 100 µg/l. The Total CVOC trends show an increase in concentrations from 2023 to 2024 (**Figure 6**).

Monitoring Well MW-004

Monitoring well MW-004 is located to the southwest of the Site and represents both side gradient and down gradient monitoring well, depending on the direction of the localized groundwater flow at the time groundwater elevations are collected. The concentration of PCE in November 2024 was 2,100 µg/l (**Figure 5)**, which was the highest detection of CVOCs on the Site. This concentration is within the same order of magnitude as the December 2020 sampling event (1,100 µg/l) and a 2008 sampling event (1,300J µg/l) collected prior to the completion of the RAs. The trend graph for monitoring well MW-004 shows that the concentration of CVOCs (primarily PCE) decreased and remained relatively consistent in sampling events conducted in 2010, 2012, 2013, 2014, and 2015 (590 D µg/l, 590 D µg/l, 660 µg/l, 250 µg/l, and 630 µg/l, respectively). CVOC concentrations fluctuated to 1,100 µg/l in December 2020, before dropping back down to 293 µg/l in 2023, and then rising to the current concentration of 2,113 µg/l in 2024 (**Figure 6)**.

Monitoring Well MW-006

Monitoring well MW-006 is located to the north, and hydraulically upgradient, of the Site. Concentrations of CVOCs, typically DCE, have historically been low in this monitoring well. DCE was detected at a concentration of 6.00 µg/l in 2023 and 7.90 in 2024 (**Figure 5)**. TCE was detected for the first time since May 2013 at 0.17 µg/l in November 2024. Total CVOCs were similar to the CVOC concentrations in 2015 which decreased following the completion of the RAs (**Figure 6**).

Monitoring Well MW-016

Monitoring well MW-016 is located within the building area of the former dry cleaner and detections of PCE in this monitoring well were among the lowest on the Site with a concentration of 17 µg/l (**Figure 5)**. TCE and DCE were also found to be among the lowest concentrations on Site, with concentrations of 1.8 µg/l and 0.63, respectively. The 2023 sampling event provides the only available data for this monitoring well and no trend analysis can be made at this time.

Monitoring Well MW-017

Monitoring well MW-017 is directly to the north of the Site and is located adjacent to the former excavation area. PCE was detected above SCGs in this monitoring well at a concentration of 16 µg/l in 2023 and 35 µg/l in 2024 (**Figure 5**). TCE was also detected above SCGs during the 2024 sampling event at a concentration of 6.7 µg/l. The total CVOC trends for this well show that concentrations have dropped significantly since the completion of the RAs through the 2023 sampling event, however, there has been a slight increase from the concentrations in 2023 to the most recent sampling event in 2024 (**Figure 6**).

Monitoring Well MW-023

Monitoring well MW-023 is directly south of the Site and is located adjacent to the former excavation area. No CVOCs were detected above SCGs at this location in either June 2023 or November 2024 (**Figure 5**). Total CVOC trends were found to be similar to historical concentrations after decreasing from a slight increase in 2020 (**Figure 6**).

Site Wide CVOC Distribution

A plume map presenting the distribution of the total CVOCs detected in groundwater in June 2023 and November 2024 at the Site is shown on **Figure 7** and **Figure 8**, respectively. The highest concentrations are located to the southwest and hydraulically downgradient of the Site in monitoring well MW-004. The downgradient extent of the CVOC plume to the southwest of these wells is unknown, due to the lack of monitoring wells located downgradient of MW-004. It should be noted that during the 2009 OU-2 RI/FS, temporary groundwater wells were installed along E. 5th St. and no impacts were observed in samples collected from these wells at that time.

In addition to the CVOC impacts to the southwest of the Site, CVOCs are observed in groundwater in monitoring wells MW-002, MW-016, and MW-017 to the northwest of the Site. This is consistent with historical data and is attributed to a localized northwestern component of groundwater flow.

4.0 Cost Summary

The total estimated cost of the Site management activities for January 2021 through December 2024 is approximately $107,802. Site management activities included the following:

- Project management and administration;
- Three site inspections;
- In 2023, sampling and laboratory analysis of 6 monitoring wells for Target Compound List (TCL) Volatile Organic Compounds (VOCs) + 10 TICS via USEPA Method 8260 (low level);
- In 2024, sampling and laboratory analysis of 5 monitoring wells for Target Compound List (TCL) Volatile Organic Compounds (VOCs) + 10 TICS via USEPA Method 8260 (low level);
- Preparation of PRR.

The total includes engineering support, as well as expenses associated with the project. It should be noted that the total does not include costs incurred by NYSDEC in support of the project. A summary of the January 2021-December 2024 Site management costs is presented below:

Summary of Site Management Costs January 1, 2021 through December 31, 2024		
Cost Item	**Amount Expended (January 1, 2021 through December 31, 2024)**	**Percent of Total Cost**
Engineering Support		
TRC	$101,078	94%
Subcontractors		
Pace	$1,200	1%
Expenses		
TRC	$5,524	5%
Total Cost	**$107,802**	----

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, groundwater sampling, and reporting (i.e., Site inspection report, DUSR, and PRR).
- Subcontractors include analytical laboratory costs associated with the groundwater sampling events.

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

5.0 Conclusions and Recommendations

5.1 Conclusions

- Based on groundwater elevations measured during the June 2023 Site visit, groundwater flow in the overburden hydrogeologic unit was to the south-southeast. Based on groundwater elevations measured during the November 2024 Site visits, groundwater flow in overburden hydrogeologic unit was to the southwest. These observations are consistent with historical observations and indicate a slight variability in groundwater flow direction.
- Site COCs, which consist of CVOCs, were detected at concentrations exceeding their respective SCGs in 5 of 6 groundwater samples collected from the Site in 2023 and 4 of 5 groundwater samples collected in 2024. Overall, detections of CVOCs were distributed near the former source area primarily to the southwest and slightly cross-gradient of the Site. There is an increase in concentrations at the perimeter of the historical plume at monitoring well MW-004; however, this concentration is consistent with concentrations detected historically.
- CVOCs were also detected to the northwest of the Site during the reporting period. This observation is consistent with historical data. Trend data from these monitoring wells show decreases in concentrations indicating the plume is dissipating in this area.
- Site and groundwater use are consistent with the restrictions set forth in the ROD, the 2017 SMP and EN, and the 2022 SMP Addendum. A post-storm site inspection was completed in 2021, and groundwater monitoring activities were completed in June 2023 and November 2024 for the 2021-2024 certification period. Site inspections and Site Inspection Reports were also completed during these events. The ICs operated as intended this reporting period.
- The remedy continued to be protective of human health and the environment this reporting period.

5.2 Recommendations

- The current PRR recommendations are listed below, and in **Section 1.1** above.
    - Annual Site inspections should continue to verify the ICs and ECs are in-place and effective and to observe any future development of the Site. One Site inspection report should also be completed following the inspection event.
    - Water level measurements should continue to be collected at the site monitoring wells during inspection and groundwater monitoring events.
    - Based on CVOC levels in MW-004, groundwater should continue to be monitored during the Site groundwater sampling events every two years. If CVOC levels stay elevated or continue to rise, further delineation may be necessary.

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

TRC Engineers, Inc.

Prepared By: _____

Jonathan Bone

Project Manager

Reviewed By: _____

Charlie Guder

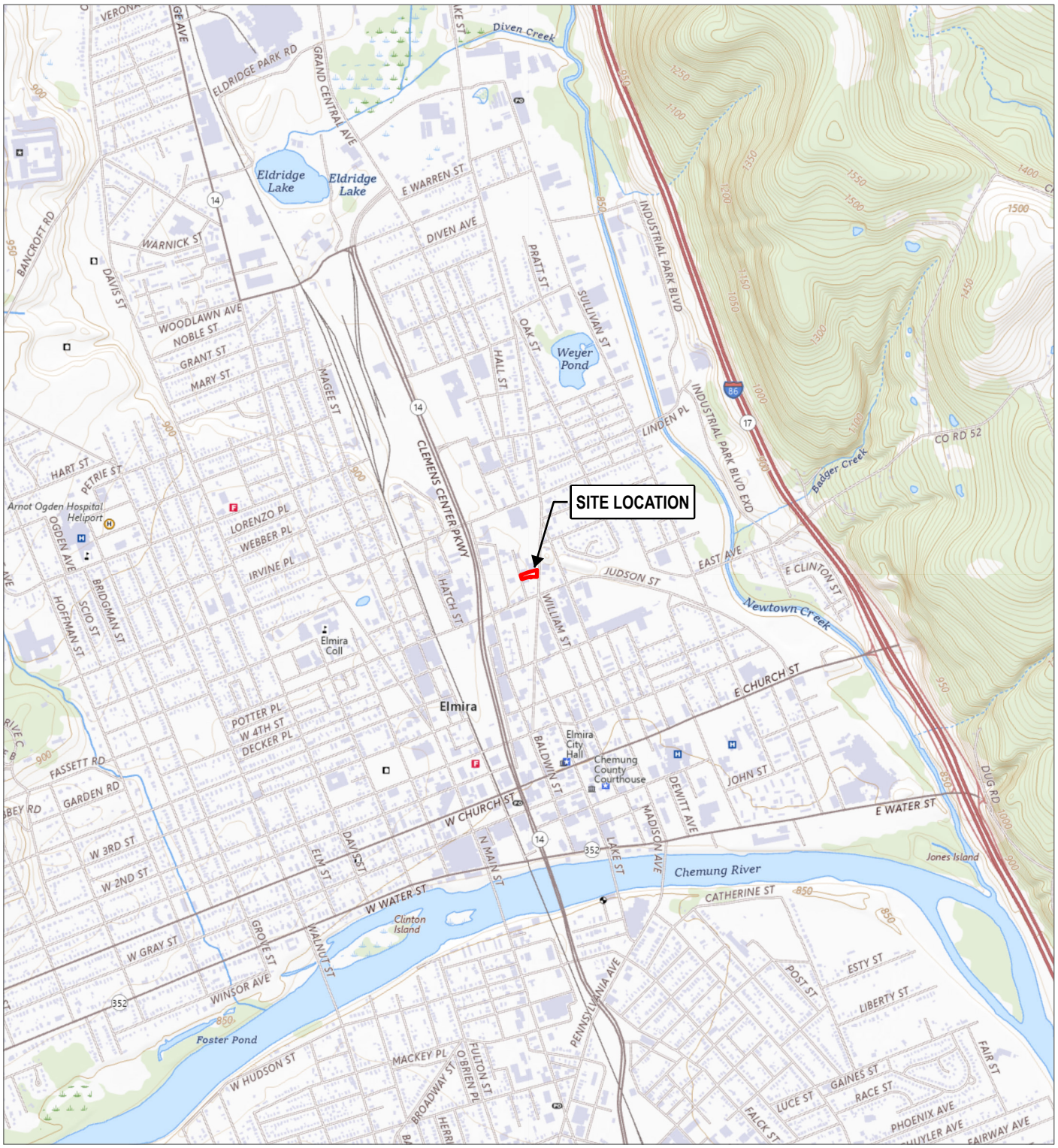
Senior Technical Reviewer

7.0 Future Site Activities

Based on the recommendations in Section 4, the following site management activities will be completed during the next PRR reporting period (January 2025 to December 2027):

- Site Inspections – Annual (next scheduled: Q4 2025)
- Groundwater – Every two years (next scheduled: Q4 2026)
- PRR – Every three years (next scheduled: Q1 2028)

Figures



LEGEND

SITE LOCATION

BASE MAP: USGS TOPOGRAPHIC MAP SERVICE, ELMIRA NEW YORK QUAD
DATA SOURCES: TRC

N

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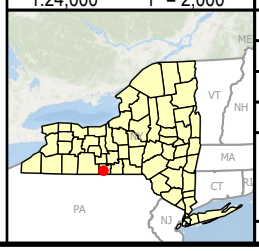
FEET

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



PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER DIAMOND CLEANERS - SITE NO. 808030
717 LAKE STREET
ELMIRA, NEW YORK 14901

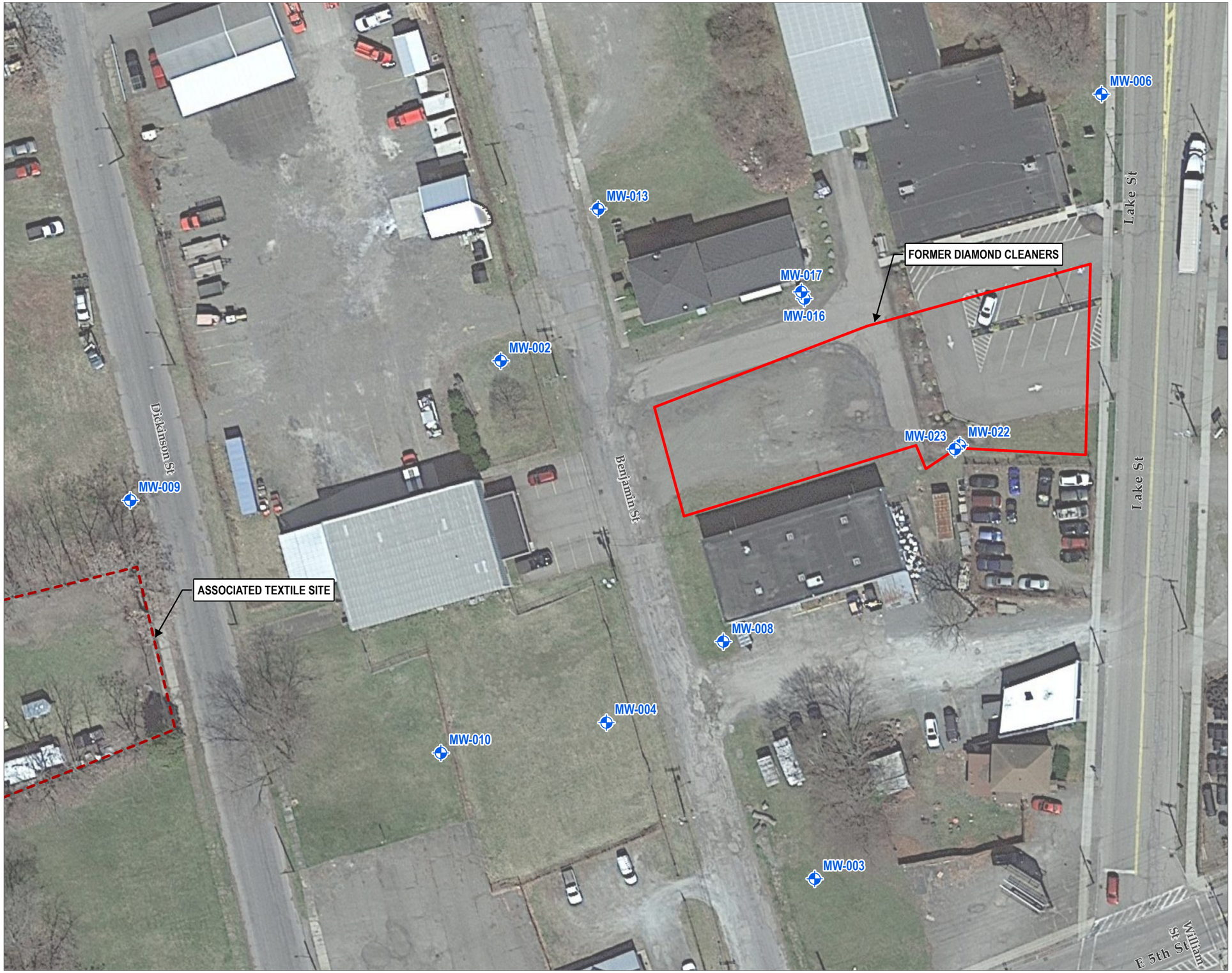
TITLE:

SITE LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 11
CHECKED BY:	K. BRATGE		
APPROVED BY:	J. BONE		**FIGURE 1**
DATE:	MARCH 2025		

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

FILE: 2025_PRR



LEGEND

- TAX PARCEL BOUNDARY
- ASSOCIATED TEXTILE SITE
- MONITORING WELL

NOTES:

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

2. WELL LOCATIONS ARE FROM THE FORMER DIAMOND CLEANERS SITE MANAGEMENT PLAN DATED AUGUST, 2017.

3. PARCEL DATA FROM CHEMUNG COUNTY REAL PROPERTY MAPPING DEPARTMENT.

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED APRIL, 2021
DATA SOURCES: TRC

1:600
1" = 50'
0 25 50 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER DIAMOND CLEANERS - SITE NO. 808030
717 LAKE STREET
ELMIRA, NEW YORK 14901

TITLE:
SITE LAYOUT MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 11
CHECKED BY:	K. BRATGE		FIGURE 2
APPROVED BY:	J. BONE		
DATE:	MARCH 2025		

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

FILE: 2025_PRR.aprx

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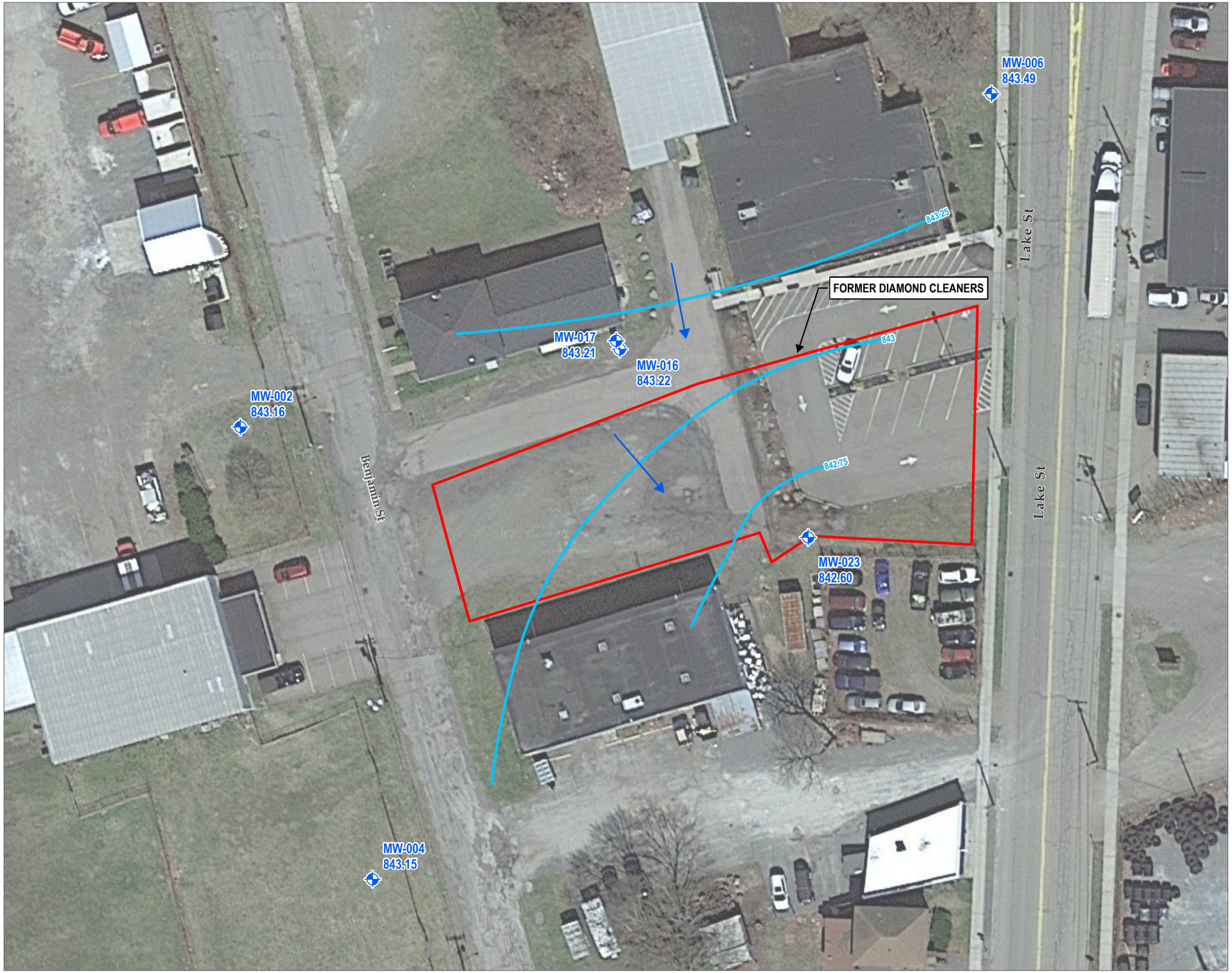

LEGEND

- TAX PARCEL BOUNDARY
- ASSOCIATED TEXTILE SITE
- GROUNDWATER ELEVATION CONTOUR (0.25' INTERVALS)
- INFERRED GROUNDWATER FLOW DIRECTION
- MONITORING WELL

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. WELL LOCATIONS ARE FROM THE FORMER DIAMOND CLEANERS SITE MANAGEMENT PLAN DATED AUGUST, 2017.
3. PARCEL DATA FROM CHEMUNG COUNTY REAL PROPERTY MAPPING DEPARTMENT.
4. POTENTIOMETRIC SURFACE ELEVATIONS COLLECTED ON JUNE 13, 2023.

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED APRIL, 2021
DATA SOURCES: TRC

1:480
1" = 40'
0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER DIAMOND CLEANERS - SITE NO. 808030
717 LAKE STREET
ELMIRA, NEW YORK 14901

TITLE:
GROUNDWATER SURFACE ELEVATIONS AND FLOW MAP - JUNE 2023

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 11
CHECKED BY:	K. BRATGE		FIGURE 3
APPROVED BY:	J. BONE		
DATE:	MARCH 2025		

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

FILE: 2025_PRR.aprx

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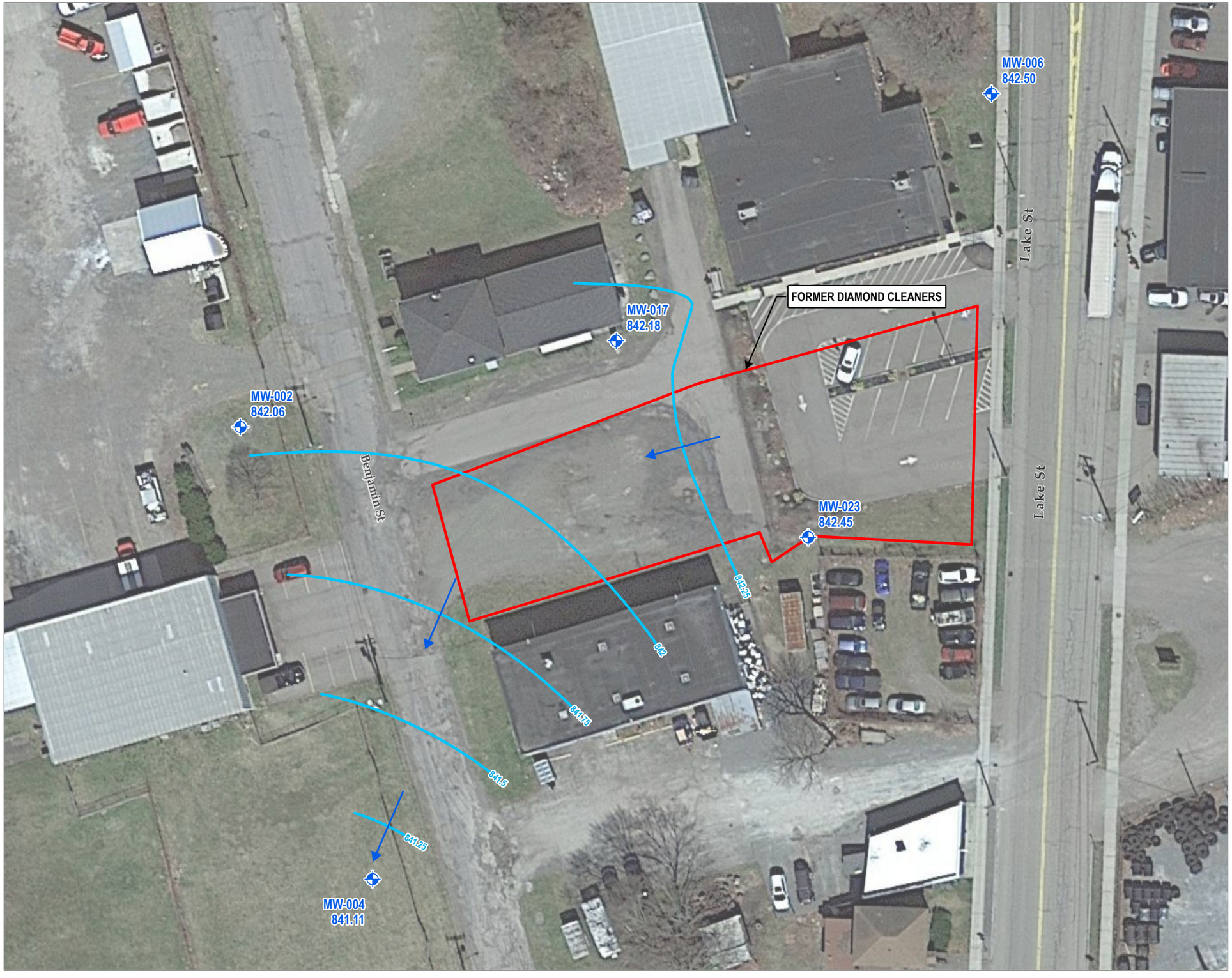

LEGEND

- TAX PARCEL BOUNDARY
- ASSOCIATED TEXTILE SITE
- GROUNDWATER ELEVATION CONTOUR (0.25' INTERVALS)
- INFERRED GROUNDWATER FLOW DIRECTION
- MONITORING WELL

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. WELL LOCATIONS ARE FROM THE FORMER DIAMOND CLEANERS SITE MANAGEMENT PLAN DATED AUGUST, 2017.
3. PARCEL DATA FROM CHEMUNG COUNTY REAL PROPERTY MAPPING DEPARTMENT.
4. POTENTIOMETRIC SURFACE ELEVATIONS COLLECTED ON NOVEMBER 12, 2024.

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED APRIL, 2021
DATA SOURCES: TRC

1:480
1" = 40'
0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER DIAMOND CLEANERS - SITE NO. 808030
717 LAKE STREET
ELMIRA, NEW YORK 14901

TITLE:
GROUNDWATER SURFACE ELEVATIONS AND FLOW MAP - NOVEMBER 2024

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 11
CHECKED BY:	K. BRATGE		FIGURE 4
APPROVED BY:	J. BONE		
DATE:	MARCH 2025		

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

FILE: 2025_PRR.aprx

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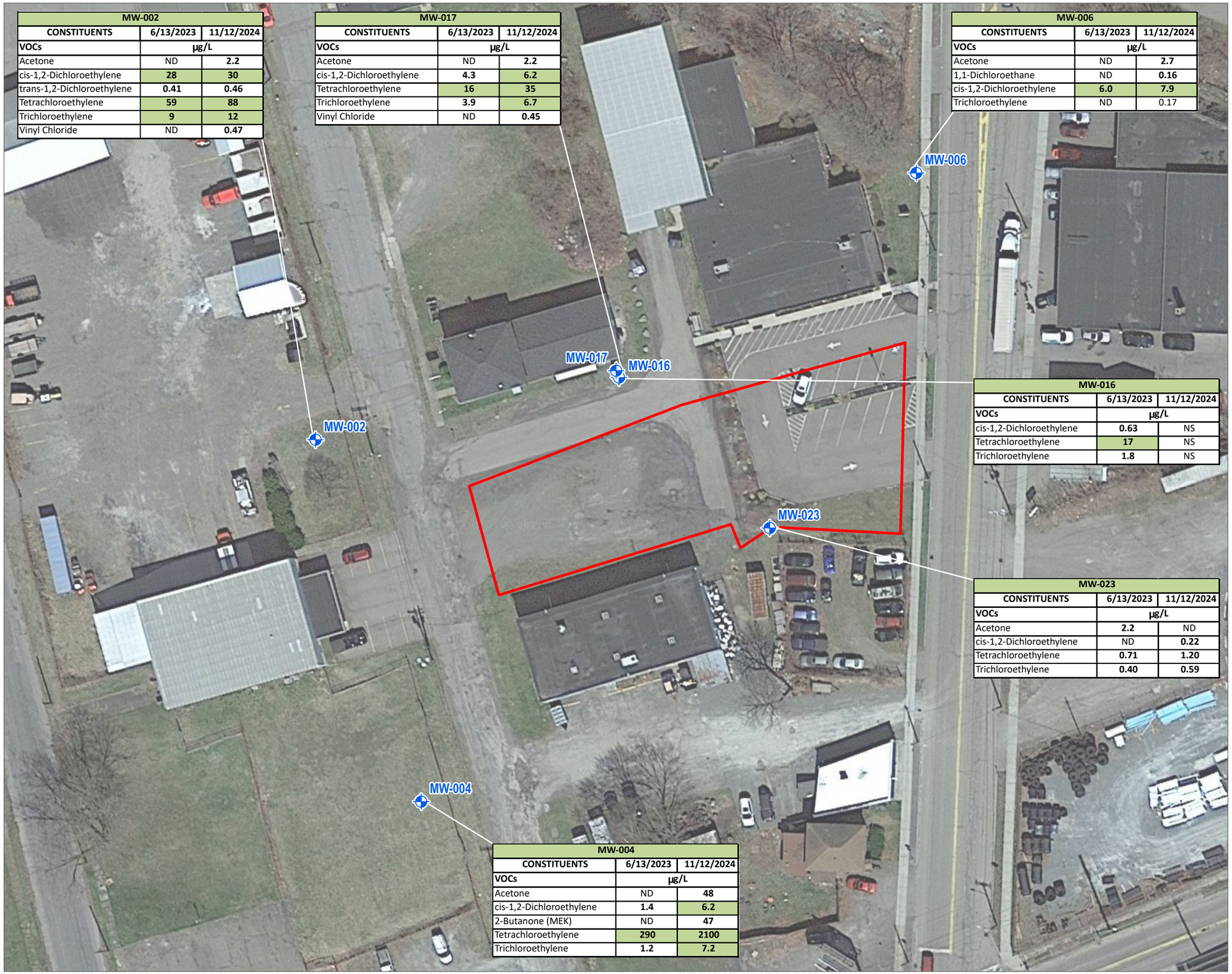

MW-002		
CONSTITUENTS	6/13/2023	11/12/2024
VOCs	µg/L	
Acetone	ND	**2.2**
cis-1,2-Dichloroethylene	**28**	**30**
trans-1,2-Dichloroethylene	**0.41**	**0.46**
Tetrachloroethylene	**59**	**88**
Trichloroethylene	**9**	**12**
Vinyl Chloride	ND	**0.47**

MW-017		
CONSTITUENTS	6/13/2023	11/12/2024
VOCs	µg/L	
Acetone	ND	**2.2**
cis-1,2-Dichloroethylene	**4.3**	**6.2**
Tetrachloroethylene	**16**	**35**
Trichloroethylene	**3.9**	**6.7**
Vinyl Chloride	ND	**0.45**

MW-006		
CONSTITUENTS	6/13/2023	11/12/2024
VOCs	µg/L	
Acetone	ND	**2.7**
1,1-Dichloroethane	ND	**0.16**
cis-1,2-Dichloroethylene	**6.0**	**7.9**
Trichloroethylene	ND	0.17

MW-016		
CONSTITUENTS	6/13/2023	11/12/2024
VOCs	µg/L	
cis-1,2-Dichloroethylene	**0.63**	NS
Tetrachloroethylene	**17**	NS
Trichloroethylene	**1.8**	NS

MW-023		
CONSTITUENTS	6/13/2023	11/12/2024
VOCs	µg/L	
Acetone	**2.2**	ND
cis-1,2-Dichloroethylene	ND	**0.22**
Tetrachloroethylene	**0.71**	**1.20**
Trichloroethylene	**0.40**	**0.59**

MW-004		
CONSTITUENTS	6/13/2023	11/12/2024
VOCs	µg/L	
Acetone	ND	**48**
cis-1,2-Dichloroethylene	**1.4**	**6.2**
2-Butanone (MEK)	ND	**47**
Tetrachloroethylene	**290**	**2100**
Trichloroethylene	**1.2**	**7.2**

LEGEND

TAX PARCEL BOUNDARY

MONITORING WELL

CONSTITUENTS	Class GA Values
VOCs	µg/L
Acetone	**50**
cis-1,2-Dichloroethylene	**5**
trans-1,2-Dichloroethylene	**5**
Tetrachloroethylene	**5**
Trichloroethylene	**5**
Vinyl Chloride	**2**

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. WELL LOCATIONS ARE FROM THE FORMER DIAMOND CLEANERS SITE MANAGEMENT PLAN DATED AUGUST, 2017.
3. PARCEL DATA FROM CHEMUNG COUNTY REAL PROPERTY MAPPING DEPARTMENT.
4. POTENTIOMETRIC SURFACE ELEVATIONS COLLECTED ON NOVEMBER 12, 2024.
5. VALUES **BOLDED** BUT NOT HIGHLIGHTED ARE DETECTED BUT DO NOT EXCEED THE LISTED GUIDANCE VALUE
6. VALUES SHOWN IN **BOLD AND SHADED TYPE** EXCEED THE LISTED GUIDANCE VALUE.

ACRONYMS
ug/L - MICROGRAMS PER LITER
J+ - ESTIMATED VALUE; BIASED HIGH
ND - NOT DETECTED
NS - NOT SAMPLED
VOCs - VOLATILE ORGANIC COMPOUNDS
* - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER
BASE MAP: GOOGLE EARTH SERVICE LAYER DATED APRIL, 2021
DATA SOURCES: TRC

N

1:600
1" = 50'

0 25 50 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER DIAMOND CLEANERS - SITE NO. 808030
717 LAKE STREET
ELMIRA, NEW YORK 14901

TITLE: SUMMARY OF DETECTED COMPOUNDS AND COMPOUNDS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS/GUIDANCE - JUNE 2023 AND NOVEMBER 2024

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 11
CHECKED BY:	K. BRATGE		FIGURE 5
APPROVED BY:	J. BONE		
DATE:	MARCH 2025		

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

FILE: 2025_PRR.aprx

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet; Map Rotation: 0
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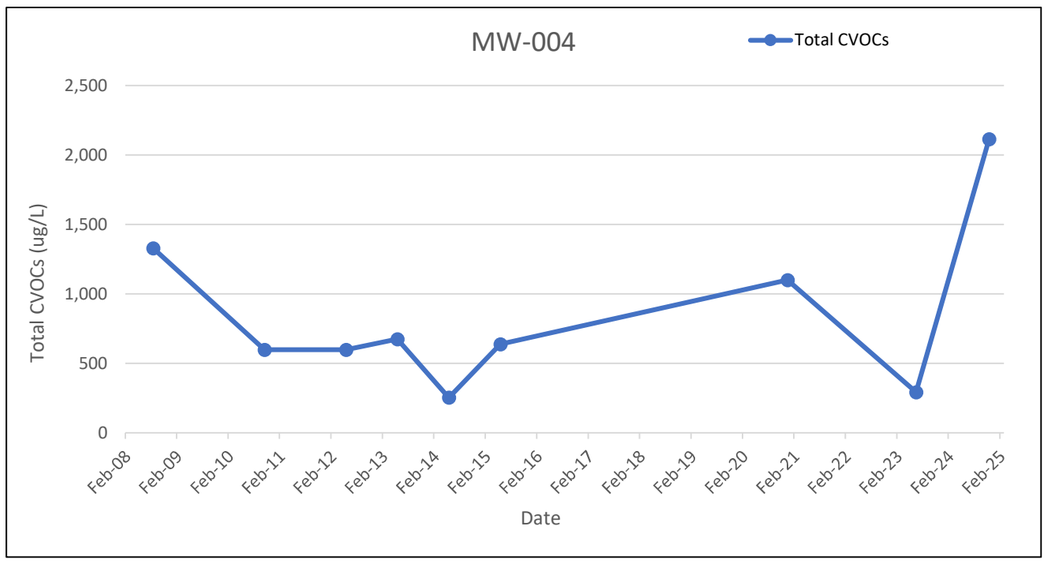
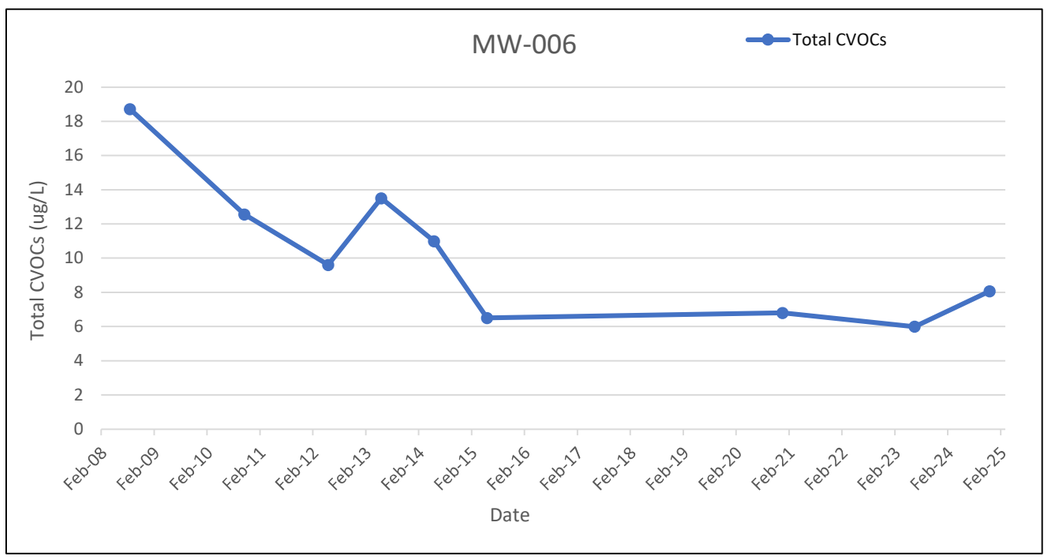
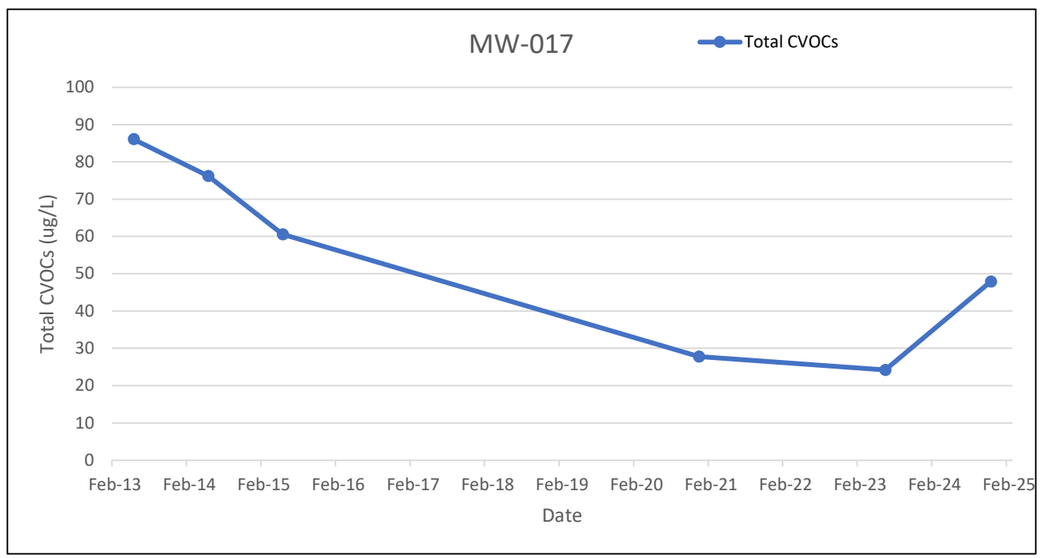
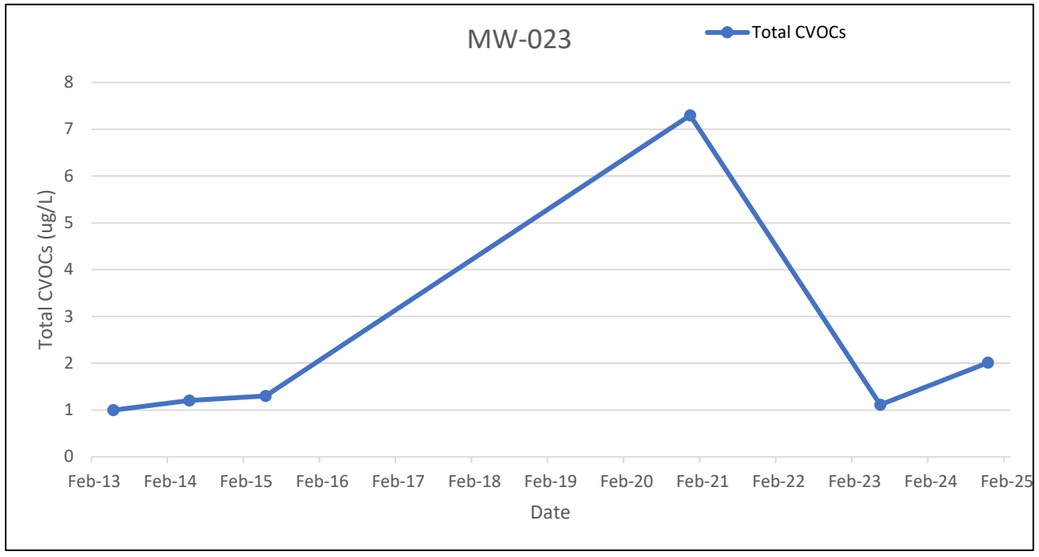
Figure 6

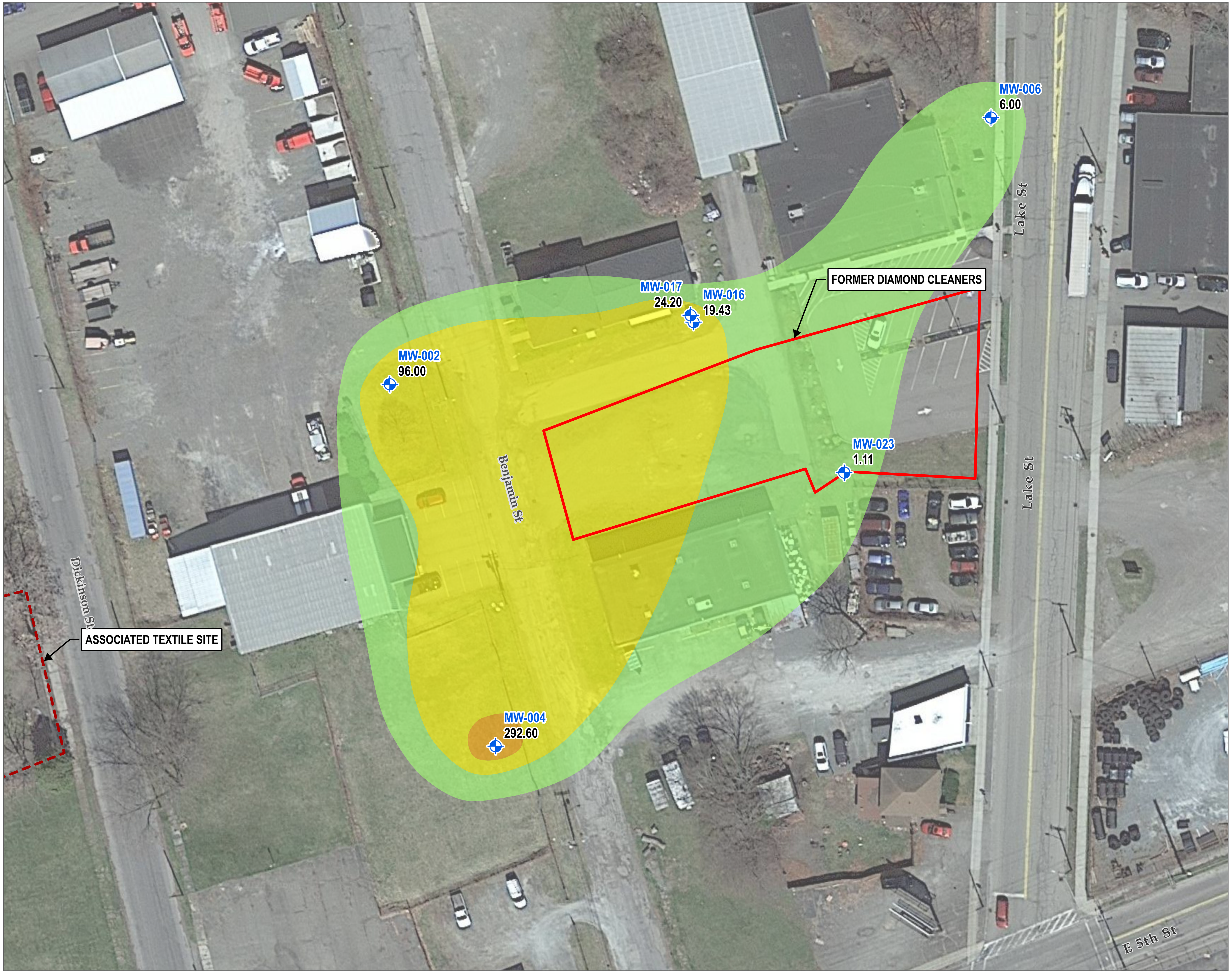
New York State Department of Environmental Conservation
Former Diamond Cleaners - NYSDEC Site No. 808030
717 Lake Street
Elmira, New York
Total CVOC Concentration Trends in Groundwater











LEGEND

- TAX PARCEL BOUNDARY
- ASSOCIATED TEXTILE SITE
- MONITORING WELL
- > 100 ug/L TOTAL CVOCs
- 10 - 100 ug/L TOTAL CVOCs
- < 10 ug/L TOTAL CVOCs

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. WELL LOCATIONS ARE FROM THE FORMER DIAMOND CLEANERS SITE MANAGEMENT PLAN DATED AUGUST, 2017.
3. PARCEL DATA FROM CHEMUNG COUNTY REAL PROPERTY MAPPING DEPARTMENT.

ACRONYMS
ug/L - MICROGRAMS PER LITER
CVOCs - CHLORINATED VOLATILE ORGANIC COMPOUNDS

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED APRIL, 2021
DATA SOURCES: TRC

N

1:600
1" = 50'
0 25 50 FEET

PROJECT: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION FORMER DIAMOND CLEANERS - SITE NO. 808030 717 LAKE STREET ELMIRA, NEW YORK 14901	
TITLE: TOTAL CHLORINATED VOLATILE ORGANIC COMPOUNDS (CVOCs) IN GROUNDWATER - JUNE 2023	
DRAWN BY: L. LILL	PROJ. NO.: 386554 PHASE 11
CHECKED BY: K. BRATGE	FIGURE 7
APPROVED BY: J. BONE	
DATE: MARCH 2025	
TRC	3 CORPORATE DRIVE SUITE 202 CLIFTON PARK, NY 12065 PHONE: 518.348.1190
FILE:	2025_PRR.aprx

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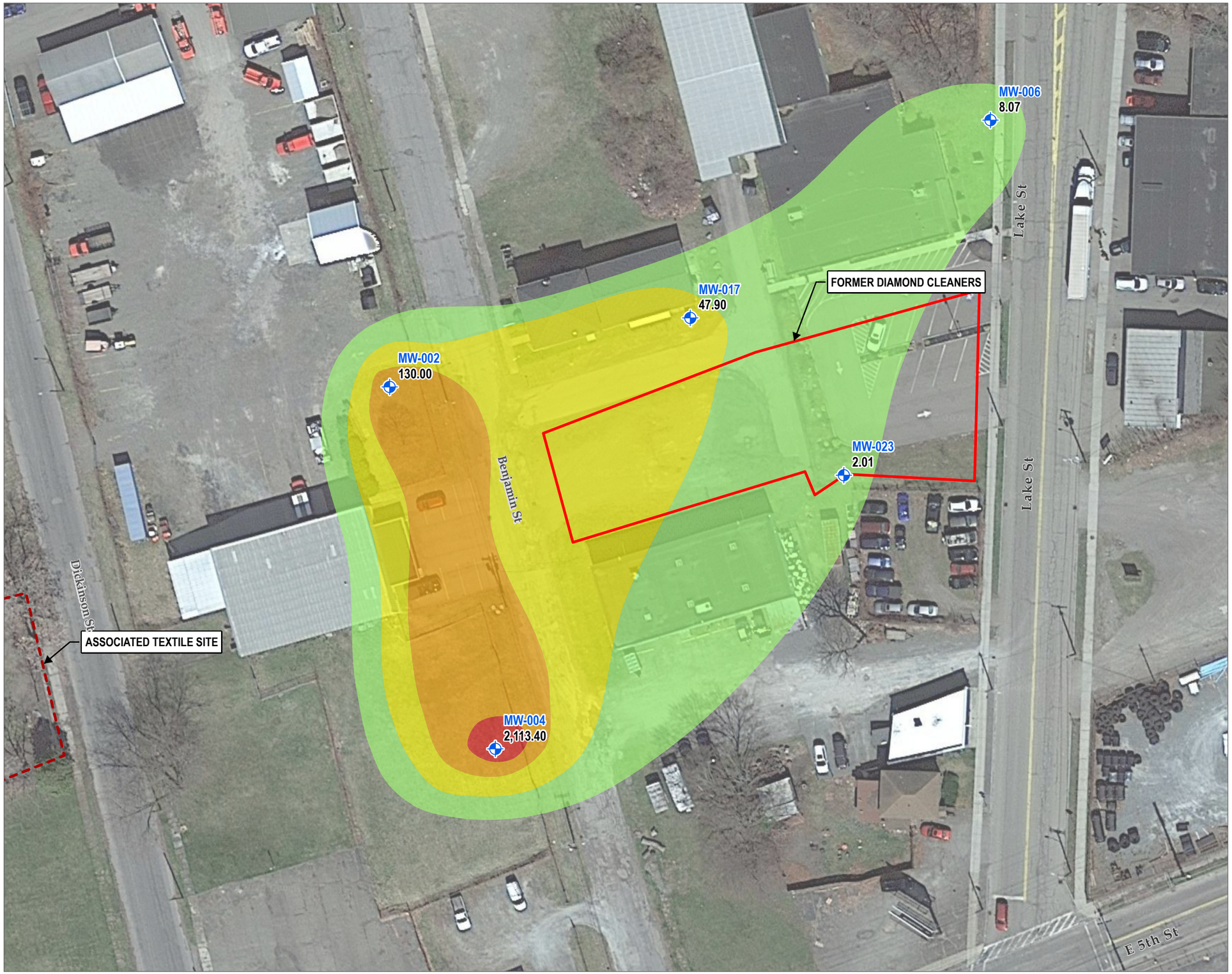


LEGEND

- TAX PARCEL BOUNDARY
- ASSOCIATED TEXTILE SITE
- MONITORING WELL
- > 1,000 ug/L TOTAL CVOCs
- 101 - 1000 ug/L TOTAL CVOCs
- 10 - 100 ug/L TOTAL CVOCs
- < 10 ug/L TOTAL CVOCs

NOTES:

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

2. WELL LOCATIONS ARE FROM THE FORMER DIAMOND CLEANERS SITE MANAGEMENT PLAN DATED AUGUST, 2017.

3. PARCEL DATA FROM CHEMUNG COUNTY REAL PROPERTY MAPPING DEPARTMENT.

ACRONYMS
ug/L - MICROGRAMS PER LITER
CVOCs - CHLORINATED VOLATILE ORGANIC COMPOUNDS

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED APRIL, 2021
DATA SOURCES: TRC

N

1:600
1" = 50'
0 25 50 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER DIAMOND CLEANERS - SITE NO. 808030
717 LAKE STREET
ELMIRA, NEW YORK 14901

TITLE: TOTAL CHLORINATED VOLATILE ORGANIC COMPOUNDS (CVOCs) IN GROUNDWATER - NOVEMBER 2024

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 11
CHECKED BY:	K. BRATGE		
APPROVED BY:	J. BONE		FIGURE 8
DATE:	MARCH 2025		

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

FILE: 2025_PRR.aprx

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet; Map Rotation: 0
Saved By LILL on 3/24/2025, 10:08:05 PM; File Path: T:\PROJECTS\VOC\386554_11_Former_Diamond_Cleaners\2-APRX\2025_PRR\2025_PRR.aprx; Layout Name: Fig08_Total_Chlorinated_Volatile_Organic_Compounds_In_Groundwater_November2024

Tables

Table 1
New York State Department of Environmental Conservation
Former Diamond Cleaners - Site No. 808030, Elmira, New York
Summary of Depth to Water Measurements and Groundwater Elevations - June 13, 2023

Well Identification	Screened Formation	Depth to Water* (feet below top of riser)	Depth to Bottom* (feet below top of riser)	Top of Riser Elevation**	Groundwater Elevation***
				(feet above mean sea level)	
MW-002	Overburden	11.41	24.09	854.57	843.16
MW-003	Overburden	No Access			
MW-004	Overburden	10.75	21.31	853.90	843.15
MW-006	Overburden	8.76	19.48	852.25	843.49
MW-008	Overburden	No Access			
MW-009	Overburden	Could not be located			
MW-010	Overburden	No Access			
MW-013	Overburden	No Access			
MW-016	Overburden	12.01	20.82	855.23	843.22
MW-017	Overburden	12.34	29.13	855.55	843.21
MW-022	Overburden	Buried			
MW-023	Overburden	11.79	29.47	854.39	842.60

Notes

* - Data recorded by TRC Engineers, Inc.

** -Source of data: MACTEC Engineering and Consulting, PC. 2013 Field Activities Report - Diamond Cleaners NYSDEC - Site No. 808030, Table 2, Monitoring Well and Groundwater Elevation Data. August 2013.

***- Elevation is calculated: Top of Riser Elevation minus Depth to Water.

Table 2
New York State Department of Environmental Conservation
Former Diamond Cleaners - Site No. 808030, Elmira, New York
Summary of Depth to Water Measurements and Groundwater Elevations - November 12, 2024

Well Identification	Screened Formation	Depth to Water* (feet below top of riser)	Depth to Bottom* (feet below top of riser)	Top of Riser Elevation**	Groundwater Elevation***
				(feet above mean sea level)	
MW-002	Overburden	12.51	24.13	854.57	842.06
MW-003	Overburden	No access			
MW-004	Overburden	12.79	19.90	853.90	841.11
MW-006	Overburden	9.75	19.50	852.25	842.5
MW-008	Overburden	No access			
MW-009	Overburden	Could not be located			
MW-010	Overburden	No access			
MW-013	Overburden	No access			
MW-016	Overburden	No access			
MW-017	Overburden	13.37	29.18	855.55	842.18
MW-022	Overburden	Burried			
MW-023	Overburden	11.94	29.50	854.39	842.45

Notes

* - Data recorded by TRC Engineers, Inc.

** -Source of data: MACTEC Engineering and Consulting, PC. 2013 Field Activities Report - Diamond Cleaners NYSDEC - Site No. 808030, Table 2, Monitoring Well and Groundwater Elevation Data. August 2013.

***- Elevation is calculated: Top of Riser Elevation minus Depth to Water.

Table 3
New York State Department of Environmental Conservation
SMP B - Former Diamond Cleaners - Site No. 808030
Elmira New York
Summary of Groundwater Analytical Results for VOCs - 2023

		Sample Location:	MW-002				MW-004		MW-006		MW-016		MW-017		MW-023	
		Sample Name:	MW-002		DUP-01		MW-04		MW-006		MW-016		MW-017		MW-023	
		Lab Sample ID:	23F1906-01		23F1906-07		23F1906-02		23F1906-03		23F1906-06		23F1906-04		23F1906-05	
		Sample Date:	6/13/2023		6/13/2023		6/13/2023		6/13/2023		6/13/2023		6/13/2023		6/13/2023	
Analyte	Unit	**Class GA Values***			Field Dup											
VOC's																
Acetone	ug/L	50	50	U	50	U	200	U	50	U	50	U	50	U	**2.2**	**J**
Benzene	ug/L	1	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Bromochloromethane	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Bromodichloromethane	ug/L	50	0.5	U	0.5	U	2	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	ug/L	50	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Bromomethane	ug/L	5	2	U	2	U	8	U	2	U	2	U	2	U	2	U
n-Butylbenzene	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
sec-Butylbenzene	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
tert-Butylbenzene	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
Carbon Disulfide	ug/L	60	5	U	5	U	20	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride	ug/L	5	5	U	5	U	20	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	ug/L	50	0.5	U	0.5	U	2	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	ug/L	5	2	U	2	U	8	U	2	U	2	U	2	U	2	U
Chloroform	ug/L	7	2	U	2	U	8	U	2	U	2	U	2	U	2	U
Chloromethane	ug/L	5	2	U	2	U	8	U	2	U	2	U	2	U	2	U
Cyclohexane	ug/L	NC	5	U	5	U	20	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L	0.04	5	U	5	U	20	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	ug/L	0.0006	0.5	U	0.5	U	2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	ug/L	3	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	ug/L	3	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	ug/L	3	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane (Freon 12)	ug/L	5	2	U	2	U	8	U	2	U	2	U	2	U	2	U
1,1-Dichloroethane	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	ug/L	0.6	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,1-Dichloroethylene	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethylene	ug/L	5	**28**		**28**		**1.4**	**J**	**6.0**		**0.63**	**J**	**4.3**		1	U
trans-1,2-Dichloroethylene	ug/L	5	**0.41**	**J**	**0.42**	**J**	4	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	ug/L	1	1	U	1	U	4	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	ug/L	0.4(a)	0.5	U	0.5	U	2	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	ug/L	0.4(a)	0.5	U	0.5	U	2	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethyl Benzene	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
2-Hexanone (MBK)	ug/L	50	10	U	10	U	40	U	10	U	10	U	10	U	10	U
Isopropylbenzene (Cumene)	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
p-Isopropyltoluene (p-Cymene)	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
2-Butanone (MEK)	ug/L	50	20	U	20	U	80	U	20	U	20	U	20	U	20	U
Methyl Acetate	ug/L	NC	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Methylene Chloride	ug/L	5	5	U	5	U	20	U	5	U	5	U	5	U	5	U
Methyl Cyclohexane	ug/L	NC	1	U	1	U	4	U	1	U	1	U	1	U	1	U
4-Methyl-2-pentanone (MIBK)	ug/L	NC	10	U	10	U	40	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether (MTBE)	ug/L	10	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Naphthalene	ug/L	10	NA		NA		NA		NA		NA		NA		NA	
n-Propylbenzene	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
Styrene	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	ug/L	5	0.5	U	0.5	U	2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichlorotrifluoroethane	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Tetrachloroethylene	ug/L	5	**59**		**57**		**290**		1	U	**17**		**16**		**0.71**	**J**
Toluene	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	ug/L	5	5	U	5	U	20	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,1,1-Trichloroethane	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	ug/L	1	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Trichloroethylene	ug/L	5	**9.0**		**9.0**		**1.2**	**J**	1	U	**1.8**		**3.9**		**0.40**	**J**
Trichlorofluoromethane (Freon 11)	ug/L	5	2	U	2	U	8	U	2	U	2	U	2	U	2	U
1,2,3-Trichloropropane	ug/L	0.04	NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	ug/L	5	NA		NA		NA		NA		NA		NA		NA	
Vinyl Chloride	ug/L	2	2	U	2	U	8	U	2	U	2	U	2	U	2	U
m/p Xylene	ug/L	5(b)	2	U	2	U	8	U	2	U	2	U	2	U	2	U
o-Xylene	ug/L	5(b)	1	U	1	U	4	U	1	U	1	U	1	U	1	U
Xylenes (total)	ug/L	5	1	U	1	U	4	U	1	U	1	U	1	U	1	U

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

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

Shading indicates result above Class GA Value.

VOCs - Volatile Organic Compounds.

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

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

(b) - criteria applicable to xylene (total), the sum of the xylene isomers.

Table 4
New York State Department of Environmental Conservation
SMP B - Former Diamond Cleaners - Site No. 808030
Elmira New York
Summary of Groundwater Analytical Results for VOCs - 2024

		Sample Location:	MW-002				MW-004		MW-006		MW-017		MW-023	
		Sample Name:	FDC-MW-002		DUP-01		FDC-MW-004		FDC-MW-006		FDC-MW-017		FDC-MW-023	
		Lab Sample ID:	24K1256-03		24K1256-04		24K1256-01		24K1256-05		24K1256-06		24K1256-02	
		Sample Date:	11/12/2024		11/12/2024		11/12/2024		11/12/2024		11/12/2024		11/12/2024	
Analyte	Unit	**Class GA Values***			Field Dup									
VOC's														
Acetone	ug/L	50	**2.2**	**J**	**2.7**	**J**	**48**	**J**	**2.7**	**J**	**2.2**	**J**	50	U
Benzene	ug/L	1	1	U	1	U	20	U	1	U	1	U	1	U
Bromochloromethane	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
Bromodichloromethane	ug/L	50	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
Bromoform	ug/L	50	1	U	1	U	20	U	1	U	1	U	1	U
Bromomethane	ug/L	5	2	U	2	U	40	U	2	U	2	U	2	U
n-Butylbenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
sec-Butylbenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
tert-Butylbenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
Carbon Disulfide	ug/L	60	5	U	5	U	100	U	5	U	5	U	5	U
Carbon Tetrachloride	ug/L	5	5	U	5	U	100	U	5	U	5	U	5	U
Chlorobenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
Chlorodibromomethane	ug/L	50	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
Chloroethane	ug/L	5	2	U	2	U	40	U	2	U	2	U	2	U
Chloroform	ug/L	7	2	U	2	U	40	U	2	U	2	U	2	U
Chloromethane	ug/L	5	2	U	2	U	40	U	2	U	2	U	2	U
Cyclohexane	ug/L	NC	5	U	5	U	100	U	5	U	5	U	5	U
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L	0.04	5	U	5	U	100	U	5	U	5	U	5	U
1,2-Dibromoethane	ug/L	0.0006	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	ug/L	3	1	U	1	U	20	U	1	U	1	U	1	U
1,3-Dichlorobenzene	ug/L	3	1	U	1	U	20	U	1	U	1	U	1	U
1,4-Dichlorobenzene	ug/L	3	1	U	1	U	20	U	1	U	1	U	1	U
Dichlorodifluoromethane (Freon 12)	ug/L	5	2	U	2	U	40	U	2	U	2	U	2	U
1,1-Dichloroethane	ug/L	5	1	U	1	U	20	U	**0.16**	**J**	1	U	1	U
1,2-Dichloroethane	ug/L	0.6	1	U	1	U	20	U	1	U	1	U	1	U
1,1-Dichloroethylene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
cis-1,2-Dichloroethylene	ug/L	5	**30**		**30**		**6.2**	**J**	**7.9**		**6.2**		**0.22**	**J**
trans-1,2-Dichloroethylene	ug/L	5	**0.46**	**J**	**0.45**	**J**	20	U	1	U	1	U	1	U
1,2-Dichloropropane	ug/L	1	1	U	1	U	20	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	ug/L	0.4(a)	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	ug/L	0.4(a)	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
Ethyl Benzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
2-Hexanone (MBK)	ug/L	50	10	U	10	U	200	U	10	U	10	U	10	U
Isopropylbenzene (Cumene)	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
p-Isopropyltoluene (p-Cymene)	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
2-Butanone (MEK)	ug/L	50	20	U	20	U	**47**	**J**	20	U	20	U	20	U
Methyl Acetate	ug/L	NC	1	U	1	U	20	U	1	U	1	U	1	U
Methylene Chloride	ug/L	5	5	U	5	U	100	U	5	U	5	U	5	U
Methyl Cyclohexane	ug/L	NC	1	U	1	U	20	U	1	U	1	U	1	U
4-Methyl-2-pentanone (MIBK)	ug/L	NC	10	U	10	U	200	U	10	U	10	U	10	U
Methyl tert-Butyl Ether (MTBE)	ug/L	10	1	U	1	U	20	U	1	U	1	U	1	U
Naphthalene	ug/L	10	2	U	2	U	40	U	2	U	2	U	2	U
n-Propylbenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
Styrene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	ug/L	5	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichlorotrifluoroethane	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
Tetrachloroethylene	ug/L	5	**88**		**91**		**2,100**		1	U	**35**		**1.2**	
Toluene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	ug/L	5	5	U	5	U	100	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
1,1,1-Trichloroethane	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
1,1,2-Trichloroethane	ug/L	1	1	U	1	U	20	U	1	U	1	U	1	U
Trichloroethylene	ug/L	5	**12**		**13**		**7.2**	**J**	**0.17**	**J**	**6.7**		**0.59**	**J**
Trichlorofluoromethane (Freon 11)	ug/L	5	2	U	2	U	40	U	2	U	2	U	2	U
1,2,3-Trichloropropane	ug/L	0.04	2	U	2	U	40	U	2	U	2	U	2	U
1,2,4-Trimethylbenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U
Vinyl Chloride	ug/L	2	**0.47**	**J**	**0.46**	**J**	40	U	2	U	**0.45**	**J**	2	U
m/p Xylene	ug/L	5(b)	2	U	2	U	40	U	2	U	2	U	2	U
o-Xylene	ug/L	5(b)	1	U	1	U	20	U	1	U	1	U	1	U
Xylenes (total)	ug/L	5	1	U	1	U	20	U	1	U	1	U	1	U

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

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

Shading indicates result above Class GA Value.

VOCs - Volatile Organic Compounds.

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

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

(b) - criteria applicable to xylene (total), the sum of the xylene isomers.

Appendix A

New York State Department of Environmental Conservation - Green and Sustainable Remediation (GSR) Activities
Green and Sustainable Remediation SMP Baseline Log

Site Name: Former Diamond Cleaners

Task	Description	# of events per year	Anticipated schedule
Task 1	Groundwater Sampling	1	24-Apr
Task 2	Site Inspection	3	3/24, 6/24, 10/24
Task 3	Monitoring Well Decommissioning	1	24-Apr
Task 4	Monitoring Well Installation	1	24-Apr
Task 5			
Task 6			

Best Management Practices Implemented (Yes, No, or NA)	**Task 1**	**Task 2**	**Task 3**	**Task 4**	**Task 5**	**Task 6**
Reduction in Sampling Frequency	No	NA	NA	NA		
Reduction in Number of Wells Sampled (# of wells removed	Yes	NA	NA	NA		
Reduction in Sampling Footprint (e.g., PDBs)	No	NA	NA	NA		
Reduction in Sampling Materials	Yes	NA	NA	NA		
Recycling/Reusing of Personal Protective Equipment (PPE)	No	NA	NA	NA		
Reduction in Number of Trips to the Site	No	NA	NA	NA		
Reduction/Optimization in Vegetation Management	No	NA	NA	NA		
Local Staff Utilized	Yes	NA	Yes	Yes		
Field Visits Combined with Other Sites	Yes	NA	NA	NA		
Use of Electric Vehicles or Equipment	No	NA	No	No		
Use of Materials from Sustainable/Local Sources	NA	NA	No	No		
Use of Solar Powered Equipment	Yes	NA	No	No		
Minimze Vehicle and Equipment Idling	Yes	NA	Yes	Yes		
Description: (250 characters max.)						

Water Consumption	**Task 1**	**Task 2**	**Task 3**	**Task 4**	**Task 5**	**Task 6**
Volume of Water Purged (Gallons)	15	NA	25	50		
Volume of Decon Water (Gallons)*	1	NA	25	50		
*Describe if water purged is waste or discharged to ground						
Other (Describe):	To Ground		Drum	Drum		

Site Visits and Travel	**Task 1**	**Task 2**	**Task 3**	**Task 4**	**Task 5**	**Task 6**
Number of Trips	1	3	1	1		
Miles per Trip	188	188	188	188		
Total Miles to and from Site	188	188	188	188		
Type of Vehicle	Truck	Truck	Truck	Truck		
Vehicle Fuel Type	Gas	Gas	Gas	Gas		
If diesel - older than 2007?						
Total Miles for Sample Transport to Lab	93	NA	NA	NA		
Sample Transport Method						
Other (Describe):						

New York State Department of Environmental Conservation - Green and Sustainable Remediation (GSR) Activities
Green and Sustainable Remediation SMP Baseline Log

Site Name: Former Diamond Cleaners

Landscaping	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Grass Cutting (# of Hours, # of Days)						
Other (Describe type and duration)						
Equipment Specification (Gas/Diesel/Electric)						
Gallons of Fuel Used (NA if Electric)						

Equipment Information	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Type of Equipment Used on Site (e.g., generator, snow blower)	Generator	NA	Drill Rig	Drill Rig		
Equipment Specification (Gas/Diesel/Electric)	Electric	NA	Diesel	Diesel		
Is Equipment Brought to Site with Personnel? (Y/N)	Y	NA	No	No		
If No, Enter Miles Required for Equipment Delivery	NA	NA	100	100		
Gallons of Fuel Used for Equipment Use (may be an estimate)			5	5		

Operating Remediation System (ORS)	Input Information for one month as baseline data			
System Description				
Nonrenewable Electricity Use (kWh)				
Renewable Electricity Use (kWh)				
Materials	**Used**	**Disposed**	**Units**	**Waste Type**
Granular Activated Carbon (GAC)				☐ Non-Hazardous ☐ Hazardous
Filter Bags				☐ Non-Hazardous ☐ Hazardous
Other (Describe):				☐ Non-Hazardous ☐ Hazardous
Was GAC Used Regenerated GAC?	☐ Yes	☐ No	☐ NA	
Variable Frequency Drive (VFD) on Motors	☐ Yes	☐ No	☐ NA	
Use of Telemetric System	☐ Yes	☐ No	☐ NA	
Cycling Operations	☐ Yes	☐ No	☐ NA	

Non-Remediation System Energy Use	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Purpose of Energy Use						
Nonrenewable Electricity Use (kWh)						
Renewable Electricity Use (kWh)						
Other (Describe):						

Sample Materials (Excluding ORS Activities)	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Number of Wells Sampled	12					
Number of Samples Collected	12					
Type of Sampling (LF; PBDs; 3-volume purge)	LF					
Linear Feet of Tubing Purchased	500					

New York State Department of Environmental Conservation - Green and Sustainable Remediation (GSR) Activities
Green and Sustainable Remediation SMP Baseline Log

Site Name: Former Diamond Cleaners

Other Materials	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Type of Refined Material Used (excluding sampling tubing)						
Quantity						
Units						
Type of Refined Material Used (excluding sampling tubing)						
Quantity						
Units						
Type of Unrefined Material Used (e.g., soil, gravel, plants)						
Quantity						
Units						
Type of Unrefined Material Used (e.g., soil, gravel, plants)						
Quantity						
Units						
Quantity of Materials Reused On-Site						
Use of Recycled Materials (% of materials used)						

Waste (Excluding ORS Activities)	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Type of Solid Waste Generated						
Quantity						
Units						
Hazardous or Non-Hazardous? (H/NH)						
Disposal or Recycle/Reuse? (D/R)						
Type of Solid Waste Generated						
Quantity						
Units						
Hazardous or Non-Hazardous? (H/NH)						
Disposal or Recycle/Reuse? (D/R)						
Type of Liquid Waste Generated						
Quantity						
Units						
Hazardous or Non-Hazardous? (H/NH)						
Disposal or Recycle/Reuse? (D/R)						
Type of Liquid Waste Generated						
Quantity						
Units						
Hazardous or Non-Hazardous? (H/NH)						
Disposal or Recycle/Reuse? (D/R)						
Total Distance Traveled for Waste Disposal (Miles)						

Note: Neglect travel distance if waste returns from Site with personnel for disposal

Land & Ecosystems	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
Land Disturbed (Acres)						
Land Restored (Acres)						

Green and Sustainable Remediation Monthly Log

Site Name: Former Diamond Cleaners
Reporting Start: 11/11/24
Reporting End: 11/12/24

Brief Description of Site Activities: Site inspection and groundwater samples collected from 5 monitoring wells

Best Management Practices			
BMPs Implemented: (Yes, No, or NA)			
Reduction in Sampling Frequency	☐ Yes	☐ No	☑ NA
Reduction in Number of Wells Sampled (# of wells removed from program)	☐ Yes	☐ No	☑ NA
Reduction in Sampling Footprint (e.g., PDBs)	☐ Yes	☐ No	☑ NA
Reduction in Sampling Materials	☐ Yes	☐ No	☑ NA
Recycling of Personal Protective Equipment (PPE) and Other Items	☐ Yes	☐ No	☑ NA
Reduction in Number of Trips to the Site	☐ Yes	☐ No	☑ NA
Reduction/Optimization in Vegetation Management	☐ Yes	☐ No	☑ NA
Local Staff Utilized	☑ Yes	☐ No	☐ NA
Field Visits Combined with Other Sites	☑ Yes	☐ No	☐ NA
Use of Electric Vehicles or Equipment	☐ Yes	☑ No	☐ NA
Use of Solar Powered Equipment	☐ Yes	☑ No	☐ NA
Use of Materials from Sustainable/Local Sources	☐ Yes	☑ No	☐ NA
Minimize Vehicle and Equipment Idling	☑ Yes	☐ No	☐ NA
Other (Describe): (250 characters max.)			

Water Consumption	
Volume of Purchased Water (Gallons)	0
Volume of Water Purged (Gallons)*	10
*Describe if water purged is waste or discharged to ground	Contained in a 55 gal. drum to be removed as IDW
Other (Describe):	

Site Visits and Travel	
Total Miles Roundtrip for Site (including TRC, contractors, & NYSDEC)	492
Type of Vehicle	Fullsize truck, Hybrid SUV, Hybrid Mini-Van
Vehicle Fuel Type (e.g. gasoline, diesel, electric)	Gasoline
If diesel - older than 2007?	☐ Yes ☐ No
Total Miles for Sample Transport to Lab	96
Sample Transport Method	☐ Lab Courier ☐ Common Carrier ☑ Field Staff
Other (Describe) (e.g. air transport for samples):	

Landscaping	
Grass Cutting (# of Hours, # of Days)	
Other (Describe type and duration)	
Equipment Specification (Gas/Diesel/Electric)	
Gallons of Fuel Used (NA if Electric)	

Equipment Information	
Type of Equipment Used on Site (e.g., generator, snow blower)	
Equipment Specification (Gas/Diesel/Electric)	
Is Equipment Brought to Site with Personnel?	☐ Yes ☐ No
If No, Enter Miles Required for Equipment Delivery	
Gallons of Fuel Used for Equipment Use (may be an estimate)	

Green and Sustainable Remediation Monthly Log

Site Name: Former Diamond Cleaners
Reporting Start: 11/11/24
Reporting End: 11/12/24

Brief Description of Site Activities: Site inspection and groundwater samples collected from 5 monitoring wells

Operating Remediation System (ORS)				
System Description				
Nonrenewable Electricity Use (kWh)				
Renewable Electricity Use (kWh)				
Materials	**Used**	**Disposed**	**Units**	**Waste Type**
Granular Activated Carbon (GAC)				☐ Non-Hazardous ☐ Hazardous
Filter Bags				☐ Non-Hazardous ☐ Hazardous
Other (Describe):				☐ Non-Hazardous ☐ Hazardous
Was GAC Used Regenerated GAC?	☐ Yes	☐ No	☐ NA	
Variable Frequency Drive (VFD) on Motors	☐ Yes	☐ No	☐ NA	
Use of Telemetric System	☐ Yes	☐ No	☐ NA	
Cycling Operations	☐ Yes	☐ No	☐ NA	

Non-Remediation System Energy Use	
Purpose of Energy Use	
Nonrenewable Electricity Use (kWh)	
Renewable Electricity Use (kWh)	
Other (Describe):	

Sample Materials (Excluding ORS Activities)			
Number of Wells Sampled	5		
Number of Samples Collected	6		
Type of Sampling	☑ Low-flow ☐ PDBs ☐ Three-volume purge		
Linear Feet of Tubing Purchased	500		
Other Materials (e.g. well installs or other activities)	**Type of Materials**	**Quantity**	**Units**
Refined Material Use (excluding sampling tubing)			Tons
Unrefined Material Use (e.g., soil, gravel, plants)			Tons
Materials Reused On-Site			
Use of Recycled Materials (% of materials used)		%	

Waste (Excluding ORS Activities)	Quantity	Units	Waste Type	Disposal Type
Solid Waste Generated		Tons	☐ Non-Hazardous ☐ Hazardous	☐ Disposal ☐ Recycle/Reuse
Solid Waste Generated		Tons	☐ Non-Hazardous ☐ Hazardous	☐ Disposal ☐ Recycle/Reuse
Liquid Waste Generated	10	Gallons	☑ Non-Hazardous ☐ Hazardous	☑ Disposal ☐ Recycle/Reuse
Liquid Waste Generated		Gallons	☐ Non-Hazardous ☐ Hazardous	☐ Disposal ☐ Recycle/Reuse
Total Distance Traveled for Waste Disposal	TBD	Miles		

Note: Neglect travel distance if waste returns from Site with personnel for disposal

Land & Ecosystems	
Land Disturbed (Acres)	
Land Restored (Acres)	

Appendix B

CUSTODIAL RECORD

PERTINENT SITE DOCUMENTS

FORMER DIAMOND CLEANERS SITE (NYSDEC SITE NO. 808030)

Teeter Environmental Services, Inc., Results of Subsurface Investigation, October 2001

MACTEC Engineering and Consulting, Inc. P.C. (MACTEC), *Diamond Cleaners Remedial Investigation/Feasibility Study Report (OU-1).* June 2007

New York State Department of Environmental Conservation, *Record of Decision,* Diamond Cleaners Site Operable Unit No.1*,* March 2008

New York State Department of Environmental Conservation, *Proposed Remedial Action Plan,* Former Diamond Cleaners Operable Unit #1 – Source Area*,* March 2008

MACTEC, *Diamond Cleaners Remedial Investigation/Feasibility Study Report (OU-2).* December 2009

New York State Department of Environmental Conservation, *Record of Decision,* Former Diamond Cleaners Site Operable Unit No.2*,* March 2010

New York State Department of Environmental Conservation, *Proposed Remedial Action Plan,* Former Diamond Cleaners Operable Unit No.2*,* March 2010

MACTEC, *Final Pre-Design Site Investigation Report,* Former Diamond Cleaners Site*,* August 2012

MACTEC, *Final Engineering Report,* Diamond Cleaners Remedial Action*,* February 2013

MACTEC, *Field Activity Report – Groundwater and Soil Sampling Results,* Diamond Cleaners Site No. 808030, August 2013

MACTEC, *Field Activity Report – Groundwater and Soil Vapor Sampling Results,* Diamond Cleaners Site No. 808030, September 2014

MACTEC, *Site Management Plan,* Former Diamond Cleaners Site, August 2017

NYSDEC, *Fact Sheet State Superfund Program,* Former Diamond Cleaners, June 2018

TRC Engineers, Inc., *Site Management Plan Addendum No. 1,* Former Diamond Cleaners, May 2022

(1) COUNTY CHEMUNG

(2) TOWN Elmira

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

WATER WELL COMPLETION REPORT

(3) DEC Well Number

(4) OWNER NAME
Diamond Cleaners

(5) OWNER ADDRESS
711 Benjamin St

(6) WELL ADDRESS (Also provide sketch or map, see instructions on reverse)
☑ Same as owner address 711 Benjamin St.

(7) LATITUDE/LONGITUDE AND METHOD USED
☐ GPS ☑ Map 42.098439, -76.805523

(8) TAX MAP NO.

(9) DEPTH OF WELL (Feet)	(10) DEPTH TO GROUNDWATER (Feet)	(11) DATE MEASURED	(12) FLOWING?
22			☐ Yes ☑ No

CASINGS

(13) DIAMETER	2 in.	in.	in.	in.
(14) LENGTH	10 ft.	ft.	ft.	ft.

(15) GROUT TYPE / SEALING
Cement Bentonite Grout

(16) GROUT / SEALING INTERVAL (Feet) From 0 To 8.5

SCREENS

(17A) MAKE

(17B) MATERIAL
PVC

(18) SLOT SIZE
0.01

(19) DIAMETER	2 in.	in.	in.	in.
(20) LENGTH	10 ft.	ft.	ft.	ft.

(21) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)
11.5

YIELD TEST

(22) DATE

(23) DURATION OF TEST (Hours:Minutes)

(24) LIFT METHOD ☐ Pump ☐ Air Lift ☐ Bailer

(25) STABILIZED DISCHARGE (GPM)

(26) STATIC LEVEL PRIOR TO TEST (Feet below top of casing)

(27) MAXIMUM DRAWDOWN (Stabilized) (Feet below top of casing)

(28) RECOVERY TIME (Hours:Minutes)

(29) Was the water produced during the test discharged away from immediate area? ☐ Yes ☐ No

DRILLER INFORMATION

(30) METHOD OF DRILLING ☐ Rotary ☐ Cable Tool ☑ Other DPT

(31) USE OF WATER

(32) DATE DRILLING WORK STARTED
9/11/24

(33) DATE DRILLING WORK COMPLETED
9/11/2024

(34) DATE REPORT COMPLETED	(35) REGISTERED COMPANY NAME	(36) DEC REGISTRATION NO.
9/17/24	Parratt Wolff, Inc.	NYRD 01621

(37) REGISTERED COMPANY ADDRESS
5879 Fisher Rd., East Syracuse, NY 13057

(38) CERTIFIED DRILLER (Print name)
Joshua Ellingworth

(39) CERTIFIED DRILLER INITIALS (ELECTRONIC SIGNATURE) *
JE

PUMP INSTALLATION

(40) PUMP INSTALLED? ☐ Yes ☑ No

(41) DATE

(42) TYPE	(43) MAKE	(44) MODEL

(45) MAXIMUM CAPACITY (GPM)

(46) PUMP INSTALLATION LEVEL (Feet below top of casing)

(47) DATE REPORT COMPLETED	(48) REGISTERED COMPANY NAME	(49) DEC REGISTRATION NO.
		NYRD

(50) REGISTERED COMPANY ADDRESS

(51) CERTIFIED PUMP INSTALLER (Print Name)

(52) CERTIFIED PUMP INSTALLER INITIALS (ELECTRONIC SIGNATURE)*

WELL LOG

DEPTH TO BEDROCK _____ (Feet below land surface)

GROUND ELEVATION _____ (Feet above sea level)

TOP OF CASING _____ (Feet above (+) or below (-) land surface)

TOP OF WELL

DEPTH (Feet)	DESCRIPTION
0-10	Overburden/ Fill
10-22	Bedrock

BOTTOM OF HOLE

* I agree, and it is my intent, to electronically sign this Water Well Completion Report (WWCR) by typing my initials in this signature box and electronically submitting it to the New York State Department of Environmental Conservation. I understand that my electronic signature is the legal equivalent of having placed my handwritten signature on a WWCR. I understand and agree that by electronically signing this WWCR, I hereby affirm that: (1) I am certified to supervise water well drilling activities as defined by Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with water well standards promulgated by the New York State Department of Health; and (3) under the penalty of perjury the information provided in this WWCR is true, accurate and complete, and I understand that any false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45. 02/2020

Provide a copy of this report to DEC and the well owner.

LOCATION SKETCH - Indicate north. Insert here or attach to this file.

INSTRUCTIONS FOR NYS DEC WATER WELL COMPLETION REPORT

1. ***County***: Record the county in which the well is located.
2. ***Town***: Record the town in which the well is located.
3. ***DEC Well Number***: Record the well number assigned to the driller by NYSDEC.
4. ***Owner Name***: Record the full name of well owner. If the well is owned by a builder, indicate the builder's name.
5. ***Owner Address***: Record the current mailing address of the well owner.
6. ***Well Address***: Record the physical address of the property on which the well is located. Provide a map of the well location using one the following methods:

   Method 1: Using a copy of the appropriate section of a 1:24,000 scale United States Geologic Survey (USGS) map or New York State Department of Transportation (NYSDOT) map, record the map name, DEC Well Number, and well location.

   Method 2: Obtain the appropriate section of a detailed county road map. Record the DEC Well Number and well location on the copy of the map.

   Method 3: Sketch a map that depicts the well location. Locate the well with respect to at least two streets or roads. Include a north arrow.
7. ***Latitude/Longitude and Method Used***: Record the latitude and longitude of the well, as determined by one of the following:

   GPS: The use of global positioning system (GPS) equipment is highly recommended.

   Map: Coordinates may also be determined from an online mapping program.
8. ***Tax Map No.***: Record the Section, Block and Lot from local Real Property Services.
9. ***Depth of Well***: Record the total well depth in feet below land surface.
10. ***Depth to Groundwater***: Measure the static water level in feet below land surface.
11. ***Date Measured***: Record the date of the water level measurement.
12. ***Flowing?***: Record if water is flowing out of the well at the time of installation.

CASINGS

13. ***Diameter***: Record the diameter of casing in inches.
14. ***Length***: Record the length of casing in feet.
15. ***Grout Type / Sealing***: Record the type of grout or sealing used (e.g. bentonite, cement, drive shoe).
16. ***Grout / Sealing Interval***: Record the interval of grout or sealing in feet below land surface.

SCREENS

17. ***Make & Material***: Record the manufacturer name and material (e.g. PVC, steel) of the screen.
18. ***Slot Size***: Record the slot size of the screen in thousandths of an inch.
19. ***Diameter***: Record the diameter of the screen in inches.
20. ***Length***: Record the length of the screen in feet.
21. ***Depth to Top of Screen, From Top of Casing***: Record the total length of casing from top of screen to top of casing in feet.

YIELD TEST

22. ***Date***: Record the start date of the yield test.
23. ***Duration of Test***: Record the duration of the test in hours and minutes.
24. ***Lift Method***: Indicate how water was produced (pump, air lift, bailer).
25. ***Stabilized Discharge***: Record the discharge rate that resulted in stabilized drawdown in gallons per minute (gpm).
26. ***Static Level Prior to Test***: Record the static water level prior to the start of the yield test in feet.
27. ***Maximum Drawdown***: Record the difference between the static water level and the lowest stabilized water level in feet.
28. ***Recovery Time***: Record the time it takes for the water level to return to the static water level after cessation of pumping in hours and minutes.
29. ***Was the water produced during test discharged away from immediate area?***: Indicate yes or no.

DRILLER INFORMATION

30. ***Method of Drilling***: Indicate rotary, cable tool, or other. If other, please describe.
31. ***Use of Water***: Commercial; Dewatering; Domestic; Fire Protection; Geothermal; Industrial; Institutional; Irrigation; Municipal; Public Water Supply; Stock Supply; Test. *For geothermal wells, reports are only required for open loop or standing column wells up to 500 feet deep.*
32. ***Date Drilling Work Started***: Record the date drilling activities started.
33. ***Date Drilling Work Completed***: Record the date drilling activities were completed.
34. ***Date Report Completed***: Record the date that the well drilling sections of the completion report form were completed.
35. ***Registered Company Name***: Record the name of the registered drilling company.
36. ***NYSDEC Registration No.***: Record the NYSDEC registration number.
37. ***Registered Company Address***: Record the address of the registered drilling company.
38. ***Certified Driller***: Record the name of the exam-certified well driller responsible for providing on-site supervision of well drilling installation activities for the well reported on this form.
39. ***Certified Driller Initials (Electronic Signature)***: The certified well driller, recorded in Box 36 of this form, must provide his/her electronic signature.

PUMP INSTALLATION

40. ***Pump Installed?***: Indicate yes or no. If no pump was installed, leave the rest of this section blank.
41. ***Date***: Record the date of pump installation.
42. ***Type***: Record the pump type (e.g. jet pump, submersible).
43. ***Make***: Record the pump's manufacturer name.
44. ***Model***: Record the manufacturer's model number. If unavailable, indicate pump horsepower.
45. ***Maximum Capacity***: Report the maximum capacity of the pump at the installed depth in gallons per minute.
46. ***Pump Installation Level***: Report the depth at which the pump was installed, in feet below the top of casing.
47. ***Date Report Completed***: Record the date that the pump installation section of the completion report form was completed.
48. ***Registered Company Name***: Record the name of the registered pump installation company.
49. ***NYSDEC Registration No.***: Record the NYSDEC registration number.
50. ***Registered Company Address***: Record the address of the registered pump installation company.
51. ***Certified Pump Installer***: Record the name of the exam-certified pump installer responsible for providing on-site supervision of pump installation activities for the well reported on this form.
52. ***Certified Pump Installer Initials (Electronic Signature)***: The certified pump installer, recorded in Box 48 of this form, must provide his/her electronic signature.

WELL LOG

- Record the depth to bedrock in feet below land surface.
- Record the ground elevation in feet above sea level.
- Record the top of casing in feet above or below land surface. Use a plus sign (+) if casing is above land surface; use a negative sign (-) if casing is below land surface.
- Describe the geologic materials encountered during drilling; indicate the depth below land surface of each change in material.
- Describe all bedrock and unconsolidated materials in detail, regardless of the depth to which the well is to be installed.
- For unconsolidated materials, indicate whether silt, sand, clay, gravel, boulders, or mixtures thereof are encountered. Describe the grain size of the unconsolidated material encountered as either clay, fine, medium, or coarse. Indicate density and color of material (e.g., soft, gray clay).
- For bedrock, describe the rock type and color (e.g. black shale, gray limestone).
- Show depth of water bearing strata.
- Show casing (including stick-up), screens, pump, additional drilling tests (e.g., hammer blows), and other items of interest (e.g., hydrofracturing information, water quality issues (e.g. sulphur, salt, methane)).
- Describe any repair work. Attach a separate sheet if necessary.

ADDITIONAL INFORMATION

Email the completed well log to NYSWaterWells@dec.ny.gov
If necessary, print and mail the completed well log to:
NYSDEC Water Well Program
625 Broadway, 4th Floor
Albany, NY, 12233-3508

For more information about the Water Well Program, visit http://www.dec.ny.gov/lands/4997.html or contact program staff at 877-472-2619.

New York State Department of Environmental Conservation
Former Diamond Cleaners Site - Site No. 808030
Town of Elmira, New York
Monitoring Well Construction Summary

Monitoring Well	Installation Date	Well Diameter (inches)	Well Material	Total Depth (feet bgs)	Screened Formation	Screen			Elevation (feet AMSL)				Location (STD UTM)	
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	PVC Casing Top	Ground Surface	Screen		Northing*	Easting*
											Top	Bottom		
MW-002	10/4/2005	2	PVC	24.5	Overburden	14.00	23.50	9.50	855.02	854.57	840.57	831.07	764735.59	759865.46
MW-003	10/4/2005	2	PVC	24.5	Overburden	14.00	23.50	9.50	854.19	853.81	839.81	830.31	764468.08	760027.58
MW-004	9/11/2024**	2	PVC	22.0	Overburden	12.00	22.00	10.00	854.18	853.90	841.90	831.90	764548.73	759920.06
MW-006	7/25/2008	2	PVC	20.0	Overburden	9.75	19.75	10.00	852.71	852.25	842.50	832.50	764873.30	760175.71
MW-008	7/25/2008	2	PVC	22.5	Overburden	12.00	22.00	10.00	854.50	853.97	841.97	831.97	754597.74	759983.96
MW-009	8/1/2008	2	PVC	22.0	Overburden	11.70	21.70	10.00	854.28	853.71	842.01	832.01	764663.53	759674.17
MW-010	7/24/2008	2	PVC	22.0	Overburden	12.00	22.00	10.00	854.69	855.89	843.89	833.89	764533.08	759834.54
MW-013	8/29/2012	2	PVC	29.0	Overburden	24.00	29.00	5.00	854.62	855.04	831.04	826.04	764814.00	759915.80
MW-016	8/30/2012	2	PVC	22.0	Overburden	12.00	22.00	10.00	855.23	855.78	843.78	833.78	764767.70	760022.20
MW-017	8/30/2012	2	PVC	29.0	Overburden	24.00	29.00	5.00	855.55	855.00	831.00	826.00	764771.20	760020.70
MW-022	9/6/2012	2	PVC	22.0	Overburden	12.00	22.00	10.00	854.37	854.69	842.69	832.69	764692.00	760102.50
MW-023	9/6/2012	2	PVC	29.0	Overburden	24.00	29.00	5.00	854.39	854.69	830.69	825.69	764690.00	760100.00

Notes
AMSL - above mean sea level
feet bgs - feet below ground surface
N/A - not avaliable
PVC - polyvinyl chloride
STD UTM - Standard Universal Transverse Mercator coordinate system
*Coordinates are measured in US Survey Feet in the New York Central Zone - 3102
**Orignal well abandonded and replaced with new well on 9/11/2024

Appendix C

NYSDEC
Division of Environmental Remediation

Contract No.

DEC Insp. – N/a

DEC PM – Brianna Scharf

Contractor Supt. – N/a

Engineer PM – Jonathan Bone

Engineer Insp. – Matthew Schappert and Lucas Heaslip

Site Location: Former Diamond Cleaners, Elmira NY

Weather Conditions				
General Description	Clear	AM	Clear	PM
Temperature	65°F	AM	73°F	PM
Wind	5 mph W	AM	5 mph W	PM

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

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

Health & Safety Comments

Site-specific HASP was followed accordingly.

Summary of Work Performed	Arrived at site:	**1000**	Departed Site:	**1430**

TRC Engineers, Inc. (TRC) were at Former Diamond Cleaners (Site) on Tuesday, June 13, 2023 to conduct a site inspection and perform groundwater sampling, as outlined in the Site Management Plan (SMP). The objective of the site inspection was to document sufficient information to evaluate compliance with all engineering and institutional controls, document general Site conditions, including the condition of soil and asphalt cover over remaining contamination, any evidence of tampering with groundwater monitoring wells, and evidence of new construction.

Prior to performing any work, TRC and the NYSDEC obtained access agreements from the following properties:

- 709 Benjamin Street (MW-004)
- 711 Benjamin Street (MW-002)
- 717 Dickinson Street (MW-009)
- 717 Lake Street (MW-022, MW-023)
- 719 Lake Street (MW-006, MW-016, MW-017)

TRC attempted to gain access to the following properties, but the locations were unoccupied:

- 351 E Fifth Street (MW-010)
- 710 Benjamin Street (MW-003, MW-008)
- 716 Benjamin Street (MW-013)

Due to access agreements not being signed, TRC was unable to perform groundwater gauging and sampling at MW-003, MW-008, MW-010 and MW-013.

Groundwater monitoring wells were in good condition and easily accessible, except as noted. One bolt was missing from MW-002. MW-004 had no bolts and water was found inside the casing, but the J-plug was secure which prevented water overflowing into the well. One bolt was missing from MW-017. MW-022 is buried in a landscaped/mulched area so it was not able to be located. MW-009 is located in an overgrown field and was not able to be located using a metal detector.

TRC took depth to water and total well depth measurements at nine monitoring wells prior to initiating sampling activities. The water level meter was decontaminated between each monitoring well location using an Alconox solution and deionized water. The total well depth and depth to water measurements are presented in Well Depth Measurements Table, attached.

Using peristaltic pumps and dedicated LDPE tubing, TRC purged each well using USEPA low stress (low flow) purging and sampling procedures to collect groundwater samples from the six wells that were accessible (MW-002, MW-004, MW-006, MW-016, MW-017, and MW-023). Prior to sample collection, field parameters were allowed to stabilize and are presented on the Groundwater Sampling Records, attached. Purge water was disposed of by discharging onto the ground in an unpaved area and personal protective equipment and old tubing was disposed of in a commercial dumpster at TRC's office in Liverpool, NY.

The collected groundwater samples and associated quality control samples (i.e., blind duplicate, matrix spike and matrix spike duplicate, trip blanks) were relinquished following standard chain-of-custody procedures to Pace Laboratories in East Syracuse, New York. Routine groundwater samples were submitted for laboratory analysis by Method 8260C for Target Compound List volatile organic compounds.

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

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

Personnel and Equipment

Individual	Company	Trade	Total Hours
Matthew Schappert	TRC	Project Scientist	4.5
Lucas Heaslip	TRC	Project Geologist	4.5

Equipment Description	Contractor/Vendor	Quantity	Used
Water level Meter	Eco-rental	2	Yes
YSI DSS Pro	Eco-rental	2	Yes
Geopump	Eco-rental	2	Yes
Camera	TRC	1	Yes
Metal Detector	TRC	1	Yes
Generator	TRC	1	Yes

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

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

Equipment/Material Tracking Comments: N/A

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A	**N/A**	**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

		Yes	No

Site Representatives	
Name	**Representing**
N/A	**N/A**

Project Schedule Comments
N/A

Issues Pending
N/A

Interaction with Public, Property Owners, Media, etc.

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

Site Photographs (Descriptions Below)

Photo 1: Parking lot off of Benjamin Street, facing west.

Photo 2: MW-009 location could not be located using a metal detector, facing west.

Photo 3: MW-016 and MW-017, facing north.

Photo 4: MW-023 partially covered in mulch. MW-022 could not be located due to landscaping, facing north.

	
Photo 5: Property along Benjamin Street with gated access, facing west.	**Photo 6:** MW-010 accessible but could not be sampled due to the access agreement being unsigned, facing east.
	
Photo 7: MW-004 prior to sampling.	**Photo 8**: MW-004 had water inside the outer casing. The J-plug was secure and water did not infiltrate the well.

	
Photo 9: MW-006 location along Lake Street, facing west.	**Photo 10:** Landscaping area where MW-022 is assumed to be, facing southwest.
Comments	
N/A	
Site Inspector(s): Matthew Schappert, Lucas Heaslip	**Date: 6/13/2023**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

DAILY HEALTH CHECKLIST

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

REMEDIAL ACTIVITIES AT PROPERTIES

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

Comments: N/A

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: N/A			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☐	N/A☒
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒

Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: N/A			

* BART – Best Available Retrofit Technology

Report No. 20211028 **Former Diamond Cleaners- NYSDEC Site No. 808030** Date: 10/28/2021

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYSDEC Contract No. D009812

NYSDEC PM: Brianna Scharf

Consultant PM: Nathan Kranes

Consultant Site Inspectors: Kevin Murphy

Site Location: 717 Lake Street, Elmira, New York

Weather Conditions

General Description	NA	AM	Clear	PM
Temperature	NA	AM	60°F	PM
Wind	NA	AM	6 mph ENE	PM

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

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

Health & Safety Comments

Site-specific HASP was followed accordingly.

Summary of Work Performed	Arrived at site:	**1415**	Departed Site:	**1440**

TRC Engineers, Inc. (TRC) preformed a conducted a post-storm site inspection on Thursday, October 28, 2021, at the Former Diamond Cleaners Site (Site), located at 717 Lake Street in the town of Elmira, New York (Site). The objectives of the Site inspection were to note the general Site conditions following the multiple storm events that have occurred in the area.

Upon arrival, TRC conducted a walk of the Site. No signs of significant disturbance were noted during this inspection.

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

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

Personnel and Equipment

Individual	Company	Trade	Total Hours
Kevin Murphy	TRC	Project Scientist	1

Equipment Description	Contractor/Vendor	Quantity	Used

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

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

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing

Project Schedule Comments

Issues Pending
Interaction with Public, Property Owners, Media, etc.

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

	
Photo 1: Looking north at the site.	**Photo 2:** Looking east at the site.
	
Photo 3: Locating MWs at the site.	**Photo 4:** Locating MWs at the site.

Comments

Site Inspector(s): Kevin Murphy	**Date: 10/28/21**

DAILY HEALTH CHECKLIST

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

REMEDIAL ACTIVITIES AT PROPERTIES

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

Comments:

NUISANCE CHECKLIST

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

RESILIENCE/GREEN REMEDIATION CHECKLIST

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

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

NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No.
D009812-04

DEC PM
Brianna Scharf

Engineer PM
Jonathan Bone

Engineer Insp.
Kirstin Bratge, Liam Merrow, and Dan MacDougall

Site Location: 717 Lake Elmira New York 14905 US

Weather Conditions				
General Description	Clouds	AM	Clear	PM
Temperature	37 °F	AM	43 °F	PM
Wind	NNW, 5mph	AM	NNW, 10mph	PM

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

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

Health & Safety Comments

No health & safety comments.

Summary of Work Performed	Arrived at site:	07:45	Departed Site:	13:30

TRC Engineers, Inc. (TRC) were at Former Diamond Cleaners (Site) on Tuesday, November 12, 2024, to conduct a site inspection and perform groundwater sampling, as outlined in the Site Management Plan (SMP). The objective of the site inspection was to document sufficient information to evaluate compliance with all engineering and institutional controls, document general Site conditions, including the condition of soil and asphalt cover over remaining contamination, any evidence of tampering with groundwater monitoring wells, and evidence of new construction.

TRC was unable to sample MW-003, MW-008, MW-010, and MW-013 due to unsigned access agreements for the respective properties. MW-022 remained unfound and expected to be buried under landscaping. MW-009 was also found to still be missing and is buried either under a gravel access road or under the dirt and grass of the field. MW-016 was located but unable to be sampled because of a commercial dumpster placed over it. The remaining five wells were all found to be in good condition. One bolt was missing from the cap of MW-017, but no water was observed within the well casing.

TRC took depth to water, total well depth, and PID readings at the five monitoring wells prior to initiating sampling activities. The water level meter was decontaminated between each monitoring well location using an Alconox solution and deionized water rinse. The total well depth, depth to water, and PID readings are presented in Well Depth Measurements Table, attached.

Using peristaltic pumps and dedicated LDPE tubing, TRC purged each well using USEPA low stress (low flow) purging and sampling procedures to collect groundwater samples from the five wells that were accessible (MW-002, MW-004, MW-006, MW-017, and MW-023). Prior to sample collection, field parameters were allowed to stabilize and are presented on the Groundwater Sampling Records, attached. Purge water was discharged to a 55-gallon steel drum stored on site which was sampled for waste characterization and is to be scheduled for removal. Personal protective equipment and used tubing was disposed of in a commercial dumpster at TRC's office in Liverpool, NY.

The collected groundwater samples and associated quality control samples (i.e., blind duplicate, matrix spike and matrix spike duplicate, trip blanks) were relinquished following standard chain-of-custody procedures to Pace Laboratories in East Syracuse, New York. Routine groundwater samples were submitted for laboratory analysis by Method 8260C for Target Compound List volatile organic compounds.

Equipment/Material Tracking **If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**			
Were there any vehicles which did not display proper D.O.T numbers and placards?	Yes ☐	No ☐	NA ☒
Were there any vehicles which were not tarped?	Yes ☐	No ☐	NA ☒
Were there any vehicles which were not decontaminated prior to exiting the work site?	Yes ☐	No ☐	NA ☒

Personnel and Equipment

Individual	Company	Trade	Total Hours
Kirstin Bratge	TRC	Project Geologist	6
Liam Merrow	TRC	Project Geologist	6
Daniel MacDougall	TRC	Project Geologist	6

Equipment Description	Contractor/Vendor	Quantity	Used
Peristaltic Pump, Geotech GeoPump II or Equivalent	Eco-Rental Solutions	3	4 hour(s)
Water Quality Meter, YSI ProDSS	Eco-Rental Solutions	3	4 hour(s)
Heron Water Level Meter, 100 ft,	Eco-Rental Solutions	3	4 hour(s)
PID, Honeywell MiniRAE 3000 10.6 eV	Eco-Rental Solutions	1	4 hour(s)

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
55-gallon drum	Yes	No	N/A	N/A	1	N/A

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

Equipment/Material Tracking Comments: Investigation derived waste (IDW) of the 55-gallon drum was sampled for waste characterization and is to be scheduled for removal from the Site.

Visitors to Site

Name	Representing	Entered Exclusion/ CRZ Zone
No site visitors recorded.		

Site Representatives

Name	Representing
No site representatives recorded.	

Project Schedule Comments

No project schedule comments.

Issues Pending

No issues pending.

Interaction with Public, Property Owners, Media, etc.

No interactions with public, property owners, media, etc.

Site Photographs (Descriptions Below)

Site Overview (E) — MW-002 inside fence line. Property owners allowed access through the open gate on Dickinson Street.

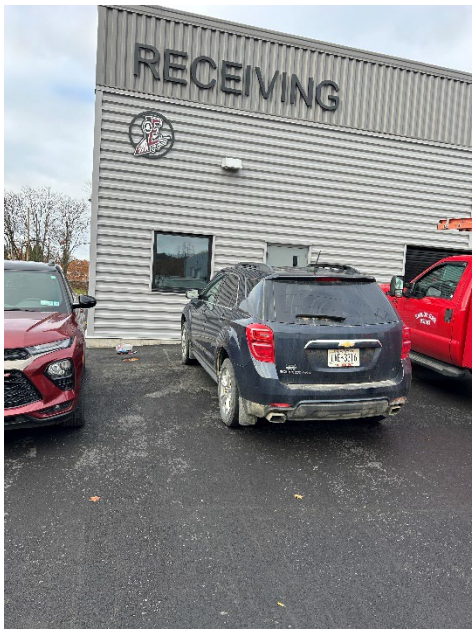
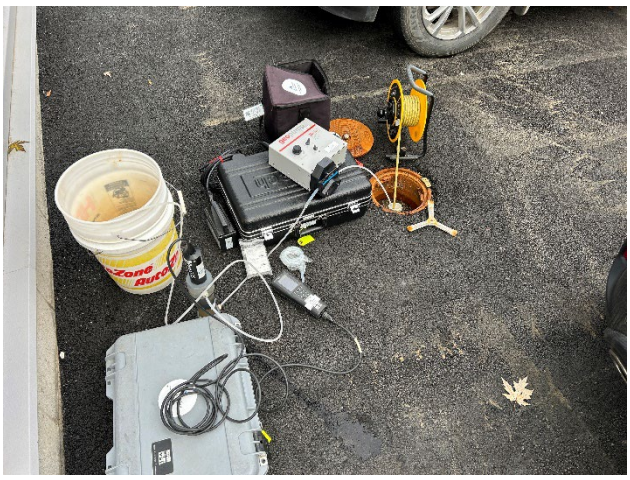
Site Overview (N) — View of MW-023 and the assumed location of MW-022, buried under landscaping.

Site Overview (NE) — General view of the Site from Benjamin St.

Site Overview (SW) — MW-006 after removing leaves and grass.

Site Overview (W) — MW-016 (left under the dumpster) and MW-017 (right).

Site Overview (W) — MW-16 located under commercial dumpster.

	
Site Overview (W) – Reinstalled MW-004 (between cars) outside of the newly constructed building at 709 Benjamin St.	**Site Overview** (Down) – View of MW-004.
	
Equipment (Down) – Sampling equipment set up at MW-004.	**Site Overview** (NW) – Newly constructed building near the assumed location of MW-009, likely covered by the access road or within the field.

Comments	
Site Inspector(s): Kirstin Bratge, Liam Merrow, and Dan MacDougall	**Date:** 11/12/2024

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐ No ☒

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A ☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A ☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A ☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☒	No ☐	N/A ☐
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A ☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A ☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A ☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A ☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A ☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
Comments:			

NUISANCE CHECKLIST

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

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☒	N/A ☐
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A ☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☒	No ☐	N/A ☐
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A ☒
Is work being sequenced to avoid double handling?	Yes ☒	No ☐	N/A ☐
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☒	N/A ☐
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A ☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A ☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A ☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A ☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A ☒
Comments:			

* BART – Best Available Retrofit Technology

Site Well Log
Guaging And Sampling

Project #: _____ Date: 11/12/24
Project Name: Former Diamond Completed By: _____

Well ID	DTW (feet)	DTB (feet)	Headspace	Sample ID	Sampled For	Notes	
MW-023	11.94	29.5	6.1			ambient air = 0.6ppm	5 ft screen set at 26.5
MW-17	13.37	29.18	3.6				5 ft screen set at 26.5
MW-004	12.79	19.9	5.0				10 ft screen set at 14.8
MW-002	12.51	24.13	4.3				10 ft screen set at 19.5
MW-006	9.75	19.5	0.7				10 ft screen set at 14.8

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554.0000.0000 Phase 11
SAMPLE ID	FDC-MW-
SAMPLE TIME	1140
LOCATION ID	FDC-MW-002
DATE	11/12/24
START TIME	1020
END TIME	1215
SITE NAME/NUMBER	808030
PAGE	1 OF 2

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	X		
CASING	X		
LOCKED			X
COLLAR			X

INITIAL DTW (BMP)	12.51 FT	FINAL DTW (BMP)	12.58 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	24.13 FT	SCREEN LENGTH	~~0.10~~ FT	PID AMBIENT AIR	0.6 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	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
1020	BEGIN PURGING									
1025	12.62	100mL	12.8°C	1.848	6.92	2.86	154.6	106.3	-	
1030	12.65	100mL	12.8°C	1.847	6.96	1.53	100.1	151.3	-	
1035	12.65	100mL	13.2°C	1.842	6.97	1.15	69.3	148.3	-	
1040	12.58	100mL	13.1°C	1.844	6.98	1.00	40.48	146.7	-	
1045	12.58	100mL	12.8°C	1.852	6.98	0.91	26.38	144.4	-	
1050	12.58	100mL	13.1°C	1.859	6.97	0.85	16.17	142.9	-	
1055	12.58	100mL	13.3°C	1.862	6.97	0.81	21.63	141.3	-	
1100	12.58	100mL	13.1°C	1.860	6.98	0.79	20.81	139.3	-	
1105	12.58	100mL	13.1°C	1.856	6.98	0.75	27.05	138.3	-	
1110	12.58	100mL	13.1°C	1.856	6.98	0.76	21.04	137.1	-	
1115	12.58	100mL	13.4°C	1.849	6.98	0.73	72.10	135.7	-	

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 Dipper T
☐ PID MINI RAE 3000
☐ WQ METER YSI
☐ TURB. METER
☐ PUMP Geopump
☐ OTHER
☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

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

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: [signature] Print Name Daniel MacDougall

Checked By: Date: 11/12/24

SKETCH/NOTES

- Initial water came up Black/oil looking.
- USED PREVIOUS TUBING
- MS/MSD/DUP OBTAINED

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554.0000.0000 Phase 11
SAMPLE ID	FDC-MW- 002
SAMPLE TIME	1140

LOCATION ID	FDC-MW-002
DATE	11/12
START TIME	1020
END TIME	1215
SITE NAME/NUMBER	808030
PAGE	2 OF 2

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	X		
CASING	X		
LOCKED			X
COLLAR			X

INITIAL DTW (BMP)	12.51 FT	FINAL DTW (BMP)	12.58 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	24.13 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	0.6 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	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
	BEGIN PURGING									
1120	12.58	100mL	12.5°C	1.857	7.00	0.76	18.44	134.7	—	
1125	12.58	100mL	12.3°C	1.855	7.00	0.77	14.01	134.0	—	
1130	12.58	100mL	12.2°C	1.851	7.00	0.78	13.02	133.7	—	
1135	12.58	100mL	12.3°C	1.851	7.00	0.78	14.21	132.5	—	

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 DIPPER T
- ☐ PID MINI RAE 3000
- ☐ WQ METER YSI
- ☐ TURB. METER
- ☐ PUMP Geopump
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED 3.0 gal

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

SKETCH/NOTES

- MS/MSD/DUP 01

Sampler Signature: [signature] Print Name Dave MacDougall

Checked By: Date: 11/14/24

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554.0000.0011
SAMPLE ID	FDC-MW-023
SAMPLE TIME	1220

LOCATION ID	MW-023
DATE	11/12/24
START TIME	1144
END TIME	1230
SITE NAME/NUMBER	
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)	11.94 FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	29.5 FT	SCREEN LENGTH	10 FT	PID AMBIENT AIR	0.6 PPM	REFILL TIMER SETTING	SEC
WATER COLUMN	17.56 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	6.1 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
	BEGIN PURGING									
1148	13.60	100	12.1	1.321	7.21	2.89	5.84	19.3	~~26.9~~	26.5
1153	13.89	100	12.7	1.326	7.24	2.09	5.16	-50.0	26.5	
1158	14.50	100	12.8	1.324	7.23	1.77	1.38	-114.2	26.5	
1203	14.59	100	12.5	1.322	7.23	1.76	1.80	-125.6	26.5	
1208	~~15.27~~ 15.27	100	12.7	1.317	7.22	1.70	0.04	-133.4	26.5	
1213	15.58	100	12.9	1.315	7.23	1.65	0.0	-139.1	26.5	
1218	15.83	100	12.9	1.313	7.23	1.64	0.0	-141.8	26.5	*water level meter was acting up during purging

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

TUBING/PUMP/BLADDER MATERIALS
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ TEFLON BLADDER
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Dipper-T
- ☒ PID Mini-Rae 3000
- ☒ WQ METER YSI ProDSS
- ☐ 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
X	See Chain of Custody	8260	N/A	HCl	3-VOA's	Yes	—	—

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED: ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED: 1

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

SKETCH/NOTES

• 3/8" tubing in the well → 1/4" tubing to YSI from peri pump

Sampler Signature: [signature] Print Name: Liam Morrow

Checked By: Date: 11/12/24

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554.0000.0000 Phase 11
SAMPLE ID	FDC-MW-006
SAMPLE TIME	10:45

LOCATION ID	MW-006
DATE	11/12/2024
START TIME	10:00
END TIME	10:50
SITE NAME/NUMBER	808030
PAGE	1 OF 1

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

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

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

WELL INTEGRITY

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

INITIAL DTW (BMP)	9.75 FT	**FINAL DTW (BMP)**	9.83 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.5 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	9.75 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.01 GAL	**PID WELL MOUTH**	0.7 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.64 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.91 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
1005	**BEGIN PURGING**									
1010	9.94	100	14.8	1.924	7.09	0.73	5.6	109.6	14.8	
1015	9.93	100	14.7	1.962	7.09	0.42	31.33	55.9	14.8	ter dropped to the bottom of the well and stirr
1020	9.90	100	14.6	1.927	7.10	0.33	16.55	28.7	14.8	
1025	9.88	100	14.5	1.932	7.09	0.26	6.89	11.7	14.8	
1030	9.85	100	14.1	1.942	7.10	0.26	4.22	-1.3	14.8	
1035	9.85	100	14.1	1.949	7.09	0.27	4.13	-8.3	14.8	
1040	9.83	100	14.1	1.955	7.09	0.25	5.26	-11.1	14.8	

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

14	**1.96**	**7.1**	**0.3**	**5.3**	**-11**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID Honeywell miniRae 3000
- [S] WQ METER YSI
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 0.91

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

SKETCH/NOTES

Sampler Signature: Print Name Kirstin Bratge

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase II
SAMPLE ID	FDC-MW-004
SAMPLE TIME	1120

LOCATION ID	MW-004
DATE	11/12/24
START TIME	1011
END TIME	
SITE NAME/NUMBER	
PAGE	1 OF 2

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)	12.79 FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	19.90 FT	SCREEN LENGTH	10' FT	PID AMBIENT AIR	0.7 PPM	REFILL TIMER SETTING	SEC
WATER COLUMN	7.11 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	5.0 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
	BEGIN PURGING									
1015	13.05	100	15.6	1.164	7.20	2.42	225.14	-89.1	14.8	
1020	13.03	100	15.2	1.173	7.21	2.05	262.10	-114.1	14.8	
1025	13.03	100	15.1	1.241	7.21	1.94	238.28	-124.1	14.8	
1030	13.03	100	15.1	1.266	7.21	1.83	221.99	-125.8	14.8	
1035	13.03	100	15.1	1.303	7.22	1.91	268.10	-128.3	14.8	
1040	13.03	100	15.1	1.321	7.23	1.69	246.99	-133.0	14.8	
1045	13.03	100	15.0	1.357	7.23	1.74	309.75	-129.1	14.8	
1050	13.05	100	15.1	1.555	7.20	1.88	420.75	-116.1	14.8	
1055	13.04	100	15.0	1.579	7.21	1.83	286.24	-113.1	14.8	
1100	13.04	100	15.0	1.584	7.21	1.86	245.25	-113.2	14.8	
1105	13.04	100	15.0	1.596	7.21	1.83	215.15	-109.3	14.8	

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
☑ PERISTALTIC	☑ LIQUINOX	☑ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☑ WL METER Dipper-T
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☑ PID MiniRae
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☑ WQ METER YSI Pro DSS
☐	☐ NITRIC ACID	☐ HDPE TUBING	☐ TEFLON BLADDER	☐ TURB. METER
☐ WATTERA	☐ HEXANE	☑ LDPE TUBING	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

X	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody	8260	NA	HCl	3-Voa's	Yes	—	

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

- when pumping at full speed (0-350 rpm drive & 1/4" tubing) the well drops .1' in ~17 seconds
- water is cloudy, turbid with a light brown color

Sampler Signature: [signature] Print Name Liam Merrow

Checked By: Date: 11/12/24

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Former Diamond Cleaners	LOCATION ID: MW-004
PROJECT NUMBER: 386554.0000.0011	DATE: 11/12/24
SAMPLE ID: FDC-MW-004	SAMPLE TIME: 1120
START TIME: 1011	END TIME:
SITE NAME/NUMBER:	PAGE: 2 OF 2

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)	12.79 FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	19.90 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	0.7 PPM	REFILL TIMER SETTING	SEC
WATER COLUMN	7.11 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	5.0 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
	BEGIN PURGING									
1110	13.04	100	15.0	1.598	7.21	1.83	178.12	-107.8	14.8	
1115	13.04	100	15.0	1.600	7.21	1.84	185.26	-104.1	14.8	

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 Dipper-T
- ✓ PID Mini-Rae 3000
- ✓ WQ METER YSI-
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

X	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
	See Chain of Custody	8260	N/A	HCl	3-VOA's	Yes	—	—

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ✓ YES ☐ NO

NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED: 2.5

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

SKETCH/NOTES: o sampled after 1 hour due to fluctuations in turbidity

Sampler Signature: [signature] Print Name: Liam Merrow

Checked By: Date: 11/12/24

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554.0000.0000 Phase 11
SAMPLE ID	FDC-MW-017
SAMPLE TIME	11:50

LOCATION ID	MW-017
DATE	11/12/2024
START TIME	10:55
END TIME	12:00
SITE NAME/NUMBER	808030
PAGE	1 OF 1

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

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

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

WELL INTEGRITY

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

INITIAL DTW (BMP)	13.37 FT	**FINAL DTW (BMP)**	13.41 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.18 FT	**SCREEN LENGTH**	5 FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.81 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.01 GAL	**PID WELL MOUTH**	3.6 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.66 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.04 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
1100	**BEGIN PURGING**									
1105	13.43	100	14.4	2.298	6.94	0.67	6.8	63.2	26.5	
1110	13.43	100	14.7	2.432	6.93	0.39	3.2	32.6	26.5	
1115	13.41	100	14.4	2.490	6.92	0.25	2.02	1.4	26.5	
1120	13.42	100	14.5	2.493	6.92	0.24	2.31	-2.9	26.5	
1125	13.42	100	14.5	2.490	6.92	0.19	2.11	-11.9	26.5	
1130	13.42	100	14.4	2.48	6.93	0.15	3.11	-21.4	26.5	
1135	13.43	100	14.5	2.483	6.93	0.15	2.25	-23.8	26.5	
1140	13.41	100	14.2	2.478	6.93	0.14	2.41	-28.7	26.5	

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

14	**2.48**	**6.9**	**0.1**	**2.4**	**-29**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID Honeywell miniRae 3000
- [X] WQ METER YSI
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [X] NO [ ]

NO-PURGE METHOD UTILIZED: YES [ ] NO [X]

NUMBER OF GALLONS GENERATED: 1.04

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

SKETCH/NOTES

Missing one bolt.

Sampler Signature:

Print Name Kirstin Bratge

Checked By:

Date:

Appendix D

Data Usability Summary Report

Site: Former Diamond Cleaners
Laboratory: Con-test/Pace New England – East Longmeadow, MA
SDG No.: 23F1906
Parameters: Volatile Organic Compounds (VOCs)
Data Reviewer: Nancy Bergstrom/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: January 20, 2025

Samples Reviewed and Evaluation Summary

7 Groundwater Samples: MW-002, MW-04, MW-006, MW-017, MW-023, MW-016, DUP-01*

*Field duplicate of MW-002

1 Trip Blank: TRIP BLANK

The above-listed samples were collected on June 13, 2023 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
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
NA	•	Laboratory Duplicate Results
	•	Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Results
*	•	Field Duplicate Results
*	•	Internal Standard Performance
	•	Sample Results and Reported Quantitation Limits (QLs)
*	•	Target Compound Identification

*	-	All criteria were met.
NA	-	A laboratory duplicate analysis was not performed on a sample in this data set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualification of the data as a result of sampling error was not required. 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 the QL. These results were qualified as estimated (J) in the

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

- The nondetect results for acetone, bromomethane, chloromethane, methyl acetate, and trichlorofluoromethane in sample MW-04 were qualified as estimated (UJ) due to low MS /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.

- The nondetect results for trichlorofluoromethane were qualified as estimated (UJ) in all samples in this data set due low LCS/LCSD 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.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

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

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

The following table summarizes the percent differences (%Ds) that did not meet the method acceptance criteria in the continuing calibration (CC) standard associated with the samples in this data set and the validation actions.

CC ID	Analyte	%D	Validation Action
S089469-CCV1 06/20/2023	Acetone	-29.1	The positive and nondetect results for the listed VOCs were qualified as estimated (J/UJ) in the associated samples.
	Bromochloromethane	29.9	
	Chloromethane	-53.2	
	1,1-Dichloroethene	-21.9	
	Trichlorofluoromethane	-30.7	
Associated samples: All samples in this data set.			

Blanks

Target compounds were not detected in the laboratory method blank associated with the samples in this data set. The following table summarizes the VOC found in the trip blank, the concentration detected, and the resulting validation action.

Trip Blank	Analyte	Blank Concentration	Validation Action
TRIP BLANK	Chloroform	0.31 J µg/L	Qualification was not required in the associated samples since chloroform was not detected.
Associated samples: All groundwater samples in this data set			

Surrogate Recoveries

The surrogate percent recoveries (%Rs) met the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample MW-04. The relative percent differences (RPDs) were within the acceptance criteria. The table below summarizes the %Rs that did not meet the acceptance criteria (70-130%) and the validation actions.

Parent Sample ID	Compound	MS %R	MSD %R	Validation Actions
MW-04	Acetone	63.4	57.5	The nondetect results for acetone, bromomethane, chloromethane, methyl acetate, and trichlorofluoromethane were qualified as estimated (UJ) in sample MW-04.
	Bromomethane	-	67.6	
	Chloromethane	59.6	68.1	
	Methyl acetate	-	65.5	
	Trichlorofluoromethane	68.9	65.8	
	Tetrachloroethene	-	54.7	Qualification of the data was not required since the concentration of tetrachloroethene in the unspiked sample was >4x the spike amount.
-: Met criteria				

Laboratory Duplicate Results

A laboratory duplicate analysis was not performed on a sample in this data set.

LCS/LCSD Results

An LCS/LCSD was analyzed prior to samples. The RPDs were within the acceptance criteria. The following table summarizes the LCS/LCSD %Rs that did not meet the laboratory acceptance criteria and the validation actions.

LCS/LCSD ID	Compound	LCS %R	LCSD %R	LCS %R Limits	Validation Actions
B343729-BS1/B343729-BSD1	Trichlorofluoromethane	66.4	67.2	70-130	The nondetect results for trichlorofluoromethane were qualified as estimated (UJ) in the associated samples.

LCS/LCSD ID	Compound	LCS %R	LCSD %R	LCS %R Limits	Validation Actions
Associated samples: All samples in this data set.					

Field Duplicate Results

Samples MW-002/DUP-01 were submitted as the field duplicate pair with this data set. The following table summarizes the RPDs and absolute differences (AbsDs), as applicable, of the detected results. All criteria were met.

Analyte	QLs (µg/L)	MW-002 (µg/L)	DUP-01 (µg/L)	RPD (%) or AbsD (µg/L)	Validation Action
cis-1,2-Dichloroethene	1.0	28	28	RPD: 0	None; all criteria were met.
trans-1,2-Dichloroethene	1.0	0.41 J	0.42 J	AbsD: 0.01	
Tetrachloroethene	1.0	59	57	RPD: 3.4	
Trichloroethene	1.0	9.0	9.0	RPD: 0	

Field duplicate criteria are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5× QL
- AbsD ≤ QL when one or both results are < 5× QL

Internal Standard Performance

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 dilution that was performed in this data set.

Sample ID(s)	Dilution	Reason for Dilution
MW-04	4-fold	A 4-fold dilution was performed due to the concentration of tetrachloroethene, which would have exceeded the calibration range if analyzed undiluted.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-002 Sampled: 6/13/2023 12:28

Sample ID: 23F1906-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
cis-1,2-Dichloroethylene	28	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
trans-1,2-Dichloroethylene	0.41	1.0	0.17	µg/L	1	J	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Tetrachloroethylene	59	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-002 Sampled: 6/13/2023 12:28

Sample ID: 23F1906-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Trichloroethylene	9.0	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 13:37	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 13:37	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		6/20/23 13:37
Toluene-d8	101	70-130		6/20/23 13:37
4-Bromofluorobenzene	95.2	70-130		6/20/23 13:37

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-04 Sampled: 6/13/2023 12:37

Sample ID: 23F1906-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	200	8.0	µg/L	4	UJ ~~MS-07A, V-05~~	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Benzene	ND	4.0	0.74	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Bromochloromethane	ND	4.0	1.1	µg/L	4	UJ	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Bromodichloromethane	ND	2.0	0.63	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Bromoform	ND	4.0	1.6	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Bromomethane	ND	8.0	5.3	µg/L	4	UJ	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
2-Butanone (MEK)	ND	80	6.7	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Carbon Disulfide	ND	20	6.2	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Carbon Tetrachloride	ND	20	0.65	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Chlorobenzene	ND	4.0	0.48	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Chlorodibromomethane	ND	2.0	0.80	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Chloroethane	ND	8.0	1.4	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Chloroform	ND	8.0	0.56	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Chloromethane	ND	8.0	2.0	µg/L	4	UJ ~~MS-07A, V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Cyclohexane	ND	20	7.1	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	3.4	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2-Dibromoethane (EDB)	ND	2.0	0.64	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2-Dichlorobenzene	ND	4.0	0.52	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,3-Dichlorobenzene	ND	4.0	0.55	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,4-Dichlorobenzene	ND	4.0	0.51	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	0.64	µg/L	4	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,1-Dichloroethane	ND	4.0	0.55	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2-Dichloroethane	ND	4.0	1.2	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,1-Dichloroethylene	ND	4.0	0.56	µg/L	4	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
cis-1,2-Dichloroethylene	1.4	4.0	0.56	µg/L	4	J	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
trans-1,2-Dichloroethylene	ND	4.0	0.69	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2-Dichloropropane	ND	4.0	0.77	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
cis-1,3-Dichloropropene	ND	2.0	0.65	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
trans-1,3-Dichloropropene	ND	2.0	0.57	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Ethylbenzene	ND	4.0	0.88	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
2-Hexanone (MBK)	ND	40	4.8	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Isopropylbenzene (Cumene)	ND	4.0	0.60	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Methyl Acetate	ND	4.0	2.4	µg/L	4	UJ	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	0.68	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Methyl Cyclohexane	ND	4.0	0.62	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Methylene Chloride	ND	20	0.71	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	5.3	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Styrene	ND	4.0	0.60	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	0.55	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Tetrachloroethylene	290	4.0	0.67	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Toluene	ND	4.0	0.89	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2,3-Trichlorobenzene	ND	20	1.4	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,2,4-Trichlorobenzene	ND	4.0	1.2	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,1,1-Trichloroethane	ND	4.0	0.60	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-04 Sampled: 6/13/2023 12:37

Sample ID: 23F1906-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	4.0	0.76	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Trichloroethylene	1.2	4.0	0.70	µg/L	4	J	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	0.62	µg/L	4	UJ ~~L-04, MS-09, V-05~~	SW-846 8260D	6/20/23	6/20/23 19:36	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	0.83	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Vinyl Chloride	ND	8.0	0.95	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
m+p Xylene	ND	8.0	2.0	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
o-Xylene	ND	4.0	0.97	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH
Xylenes (total)	ND	4.0	4.0	µg/L	4		SW-846 8260D	6/20/23	6/20/23 19:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		6/20/23 19:36
Toluene-d8	100	70-130		6/20/23 19:36
4-Bromofluorobenzene	95.7	70-130		6/20/23 19:36

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-006 Sampled: 6/13/2023 13:25

Sample ID: 23F1906-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 19:09	EEH
cis-1,2-Dichloroethylene	6.0	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-006 Sampled: 6/13/2023 13:25

Sample ID: 23F1906-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 19:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 19:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		6/20/23 19:09
Toluene-d8	100	70-130		6/20/23 19:09
4-Bromofluorobenzene	95.3	70-130		6/20/23 19:09

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-017 Sampled: 6/13/2023 13:35

Sample ID: 23F1906-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 14:04	EEH
cis-1,2-Dichloroethylene	4.3	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Tetrachloroethylene	16	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-017 Sampled: 6/13/2023 13:35

Sample ID: 23F1906-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Trichloroethylene	3.9	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 14:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		6/20/23 14:04
Toluene-d8	101	70-130		6/20/23 14:04
4-Bromofluorobenzene	93.8	70-130		6/20/23 14:04

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-023 Sampled: 6/13/2023 14:07

Sample ID: 23F1906-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.2	50	2.0	µg/L	1	J ~~J, V-05~~	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Tetrachloroethylene	0.71	1.0	0.17	µg/L	1	J	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-023 Sampled: 6/13/2023 14:07

Sample ID: 23F1906-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Trichloroethylene	0.40	1.0	0.17	µg/L	1	J	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 14:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		6/20/23 14:32
Toluene-d8	101	70-130		6/20/23 14:32
4-Bromofluorobenzene	94.4	70-130		6/20/23 14:32

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Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-016 Sampled: 6/13/2023 14:15

Sample ID: 23F1906-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
cis-1,2-Dichloroethylene	0.63	1.0	0.14	µg/L	1	J	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Tetrachloroethylene	17	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: MW-016 Sampled: 6/13/2023 14:15

Sample ID: 23F1906-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Trichloroethylene	1.8	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 14:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 14:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		6/20/23 14:59
Toluene-d8	101	70-130		6/20/23 14:59
4-Bromofluorobenzene	95.6	70-130		6/20/23 14:59

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: DUP-01 Sampled: 6/13/2023 12:00

Sample ID: 23F1906-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
cis-1,2-Dichloroethylene	28	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
trans-1,2-Dichloroethylene	0.42	1.0	0.17	µg/L	1	J	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Tetrachloroethylene	57	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: DUP-01 Sampled: 6/13/2023 12:00

Sample ID: 23F1906-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Trichloroethylene	9.0	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 15:27	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 15:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		6/20/23 15:27
Toluene-d8	99.8	70-130		6/20/23 15:27
4-Bromofluorobenzene	96.0	70-130		6/20/23 15:27

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: TRIP BLANK Sampled: 6/13/2023 00:00

Sample ID: 23F1906-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1	UJ	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Chloroform	0.31	2.0	0.14	µg/L	1	J	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ ~~V-05, V-34~~	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1	~~V-34~~	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	UJ ~~V-05~~	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH

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

Project Location: MW, Elmira, Chemung County, N Sample Description: Work Order: 23F1906

Date Received: 6/15/2023

Field Sample #: TRIP BLANK Sampled: 6/13/2023 00:00

Sample ID: 23F1906-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1	UJ ~~L-04, V-05~~	SW-846 8260D	6/20/23	6/20/23 12:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/20/23	6/20/23 12:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		6/20/23 12:14
Toluene-d8	101	70-130		6/20/23 12:14
4-Bromofluorobenzene	95.7	70-130		6/20/23 12:14

QC NONCONFORMANCE DOCUMENTATION

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Instrument ID:	GCMSVOA5	Calibration:	2300590
Lab File ID:	E23V17101.D	Calibration Date:	04/30/23 08:53
Sequence:	S089469	Injection Date:	06/20/23
Lab Sample ID:	S089469-CCV1	Injection Time:	09:56

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100	70.9	0.1120308	7.947132E-02		-29.1	20	*
Benzene	A	10.0	10.6	1.165461	1.234627		5.9	20	
Bromochloromethane	A	10.0	13.0	0.2179154	0.2830655		29.9	20	*
Bromodichloromethane	A	10.0	10.4	0.264116	0.2757424		4.4	20	
Bromoform	A	10.0	9.46	0.2823189	0.2671838		-5.4	20	
Bromomethane	A	10.0	8.92	0.2564384	0.2286752		-10.8	20	
2-Butanone (MEK)	A	100	109	0.1285302	0.1403099		9.2	20	
Carbon Disulfide	A	100	90.1	1.07443	0.9685385		-9.9	20	
Carbon Tetrachloride	A	10.0	10.4	0.4166298	0.4325878		3.8	20	
Chlorobenzene	A	10.0	10.1	1.147516	1.157539		0.9	20	
Chlorodibromomethane	A	10.0	10.8	0.1977476	0.2138474		8.1	20	
Chloroethane	A	10.0	8.68	0.2432046	0.2109969		-13.2	20	
Chloroform	A	10.0	10.7	0.5266767	0.5648218		7.2	20	
Chloromethane	A	10.0	4.68	0.3776364	0.1766339		-53.2	20	*
Cyclohexane	A	10.0	11.7	0.4942125	0.5764742		16.6	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	8.98	6.658675E-02	5.980562E-02		-10.2	20	
1,2-Dibromoethane (EDB)	A	10.0	10.1	0.180826	0.1826456		1.0	20	
1,2-Dichlorobenzene	A	10.0	10.4	0.7613033	0.7908687		3.9	20	
1,3-Dichlorobenzene	A	10.0	10.4	0.863444	0.9022376		4.5	20	
1,4-Dichlorobenzene	A	10.0	10.1	0.9027539	0.9088827		0.7	20	
Dichlorodifluoromethane (Freon 12)	A	10.0	8.07	0.4841823	0.3907691		-19.3	20	
1,1-Dichloroethane	A	10.0	11.8	0.4873098	0.5736795		17.7	20	
1,2-Dichloroethane	A	10.0	9.92	0.2679117	0.265753		-0.8	20	
1,1-Dichloroethylene	A	10.0	7.81	0.6107478	0.4769784		-21.9	20	*
cis-1,2-Dichloroethylene	A	10.0	11.7	0.3818696	0.4462735		16.9	20	
trans-1,2-Dichloroethylene	A	10.0	11.5	0.3972136	0.4578145		15.3	20	
1,2-Dichloropropane	A	10.0	11.6	0.196562	0.2281544		16.1	20	
cis-1,3-Dichloropropene	A	10.0	11.7	0.2804525	0.3277879		16.9	20	
trans-1,3-Dichloropropene	A	10.0	11.5	0.2219342	0.2558399		15.3	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Instrument ID:	GCMSVOA5	Calibration:	2300590
Lab File ID:	E23V17101.D	Calibration Date:	04/30/23 08:53
Sequence:	S089469	Injection Date:	06/20/23
Lab Sample ID:	S089469-CCV1	Injection Time:	09:56

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,4-Dioxane	A	100	90.3	2.154868E-03	1.945108E-03		-9.7	20	
Ethylbenzene	A	10.0	10.5	1.878445	1.97498		5.1	20	
2-Hexanone (MBK)	A	100	118	0.1186916	0.1398767		17.8	20	
Isopropylbenzene (Cumene)	A	10.0	10.0	1.867965	1.876857		0.5	20	
Methyl Acetate	A	10.0	8.40	0.332519	0.2794537		-16.0	20	
Methyl tert-Butyl Ether (MTBE)	A	10.0	10.1	0.7057303	0.7149197		1.3	20	
Methyl Cyclohexane	A	10.0	10.0	0.3290469	0.3294539		0.1	20	
Methylene Chloride	A	10.0	9.17	0.4758469	0.4362924		-8.3	20	
4-Methyl-2-pentanone (MIBK)	A	100	119	0.1684693	0.2008612		19.2	20	
Styrene	A	10.0	10.6	1.070801	1.129543		5.5	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.76	0.4665789	0.455249		-2.4	20	
Tetrachloroethylene	A	10.0	10.4	0.2357475	0.2439047		3.5	20	
Toluene	A	10.0	10.6	0.8379045	0.8855805		5.7	20	
1,2,3-Trichlorobenzene	A	10.0	8.12	0.300294	0.2438786		-18.8	20	
1,2,4-Trichlorobenzene	A	10.0	8.85	0.3792939	0.3357643		-11.5	20	
1,1,1-Trichloroethane	A	10.0	10.8	0.4484264	0.4849076		8.1	20	
1,1,2-Trichloroethane	A	10.0	10.6	0.1658821	0.174958		5.5	20	
Trichloroethylene	A	10.0	10.3	0.2146332	0.2201679		2.6	20	
Trichlorofluoromethane (Freon 11)	A	10.0	6.93	0.7101492	0.4924004		-30.7	20	*
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	8.00	0.4175729	0.3338997		-20.0	20	
Vinyl Chloride	Q	10.0	11.1	0.3758119	0.3701197		11.1	20	
m+p Xylene	A	20.0	21.0	1.505147	1.576822		4.8	20	
o-Xylene	A	10.0	10.5	1.443308	1.512859		4.8	20	
1,2-Dichloroethane-d4	A	25.0	25.4	0.5194123	0.5286129		1.8		
Toluene-d8	A	25.0	25.1	1.148628	1.15198		0.3		
4-Bromofluorobenzene	A	25.0	24.1	0.861499	0.8314555		-3.5		

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

MW-04

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B343729	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B343729-MS2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23F1906-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
Acetone	400	ND	253	63.4	*	70 - 130
Benzene	40.0	ND	43.6	109		70 - 130
Bromochloromethane	40.0	ND	49.8	124		70 - 130
Bromodichloromethane	40.0	ND	42.8	107		70 - 130
Bromoform	40.0	ND	34.1	85.3		70 - 130
Bromomethane	40.0	ND	28.4	71.0		70 - 130
2-Butanone (MEK)	400	ND	411	103		70 - 130
Carbon Disulfide	400	ND	362	90.6		70 - 130
Carbon Tetrachloride	40.0	ND	43.8	109		70 - 130
Chlorobenzene	40.0	ND	40.2	100		70 - 130
Chlorodibromomethane	40.0	ND	39.8	99.4		70 - 130
Chloroethane	40.0	ND	32.6	81.4		70 - 130
Chloroform	40.0	ND	44.0	110		70 - 130
Chloromethane	40.0	ND	23.8	59.6	*	70 - 130
Cyclohexane	40.0	ND	48.0	120		70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	40.0	ND	33.2	82.9		70 - 130
1,2-Dibromoethane (EDB)	40.0	ND	39.9	99.7		70 - 130
1,2-Dichlorobenzene	40.0	ND	40.6	101		70 - 130
1,3-Dichlorobenzene	40.0	ND	42.0	105		70 - 130
1,4-Dichlorobenzene	40.0	ND	40.4	101		70 - 130
Dichlorodifluoromethane (Freon 12)	40.0	ND	32.4	80.9		70 - 130
1,1-Dichloroethane	40.0	ND	48.1	120		70 - 130
1,2-Dichloroethane	40.0	ND	40.7	102		70 - 130
1,1-Dichloroethylene	40.0	ND	32.6	81.5		70 - 130
cis-1,2-Dichloroethylene	40.0	1.40	48.2	117		70 - 130
trans-1,2-Dichloroethylene	40.0	ND	47.4	118		70 - 130
1,2-Dichloropropane	40.0	ND	47.1	118		70 - 130
cis-1,3-Dichloropropene	40.0	ND	44.3	111		70 - 130
trans-1,3-Dichloropropene	40.0	ND	42.6	106		70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-04

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B343729	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B343729-MS2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23F1906-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
Ethylbenzene	40.0	ND	42.8	107		70 - 130
2-Hexanone (MBK)	400	ND	444	111		70 - 130
Isopropylbenzene (Cumene)	40.0	ND	40.6	102		70 - 130
Methyl Acetate	40.0	ND	28.1	70.3		70 - 130
Methyl tert-Butyl Ether (MTBE)	40.0	ND	39.9	99.7		70 - 130
Methyl Cyclohexane	40.0	ND	41.2	103		70 - 130
Methylene Chloride	40.0	ND	36.2	90.4		70 - 130
4-Methyl-2-pentanone (MIBK)	400	ND	445	111		70 - 130
Styrene	40.0	ND	41.7	104		70 - 130
1,1,2,2-Tetrachloroethane	40.0	ND	37.0	92.6		70 - 130
Tetrachloroethylene	40.0	292	341	121		70 - 130
Toluene	40.0	ND	43.5	109		70 - 130
1,2,3-Trichlorobenzene	40.0	ND	35.9	89.7		70 - 130
1,2,4-Trichlorobenzene	40.0	ND	37.4	93.4		70 - 130
1,1,1-Trichloroethane	40.0	ND	44.8	112		70 - 130
1,1,2-Trichloroethane	40.0	ND	42.2	106		70 - 130
Trichloroethylene	40.0	1.16	45.1	110		70 - 130
Trichlorofluoromethane (Freon 11)	40.0	ND	27.6	68.9	*	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40.0	ND	32.7	81.7		70 - 130
Vinyl Chloride	40.0	ND	39.8	99.6		70 - 130
m+p Xylene	80.0	ND	82.8	104		70 - 130
o-Xylene	40.0	ND	41.8	104		70 - 130
Xylenes (total)	120	ND	125	104		0 - 200

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-04

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B343729	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B343729-MSD2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23F1906-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Acetone	400	230	57.5	*	9.63	30	70 - 130
Benzene	40.0	41.6	104		4.60	30	70 - 130
Bromochloromethane	40.0	46.8	117		6.05	30	70 - 130
Bromodichloromethane	40.0	40.2	101		6.07	30	70 - 130
Bromoform	40.0	32.3	80.8		5.42	30	70 - 130
Bromomethane	40.0	27.0	67.6	*	4.91	30	70 - 130
2-Butanone (MEK)	400	418	105		1.66	30	70 - 130
Carbon Disulfide	400	350	87.6		3.40	30	70 - 130
Carbon Tetrachloride	40.0	42.1	105		3.91	30	70 - 130
Chlorobenzene	40.0	38.6	96.4		4.07	30	70 - 130
Chlorodibromomethane	40.0	37.7	94.3		5.27	30	70 - 130
Chloroethane	40.0	30.2	75.6		7.39	30	70 - 130
Chloroform	40.0	42.0	105		4.65	30	70 - 130
Chloromethane	40.0	27.2	68.1	*	13.3	30	70 - 130
Cyclohexane	40.0	45.7	114		4.95	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	40.0	31.8	79.6		4.06	30	70 - 130
1,2-Dibromoethane (EDB)	40.0	38.3	95.8		3.99	30	70 - 130
1,2-Dichlorobenzene	40.0	39.0	97.5		3.92	30	70 - 130
1,3-Dichlorobenzene	40.0	40.2	101		4.38	30	70 - 130
1,4-Dichlorobenzene	40.0	38.9	97.3		3.63	30	70 - 130
Dichlorodifluoromethane (Freon 12)	40.0	31.4	78.4		3.14	30	70 - 130
1,1-Dichloroethane	40.0	46.0	115		4.59	30	70 - 130
1,2-Dichloroethane	40.0	38.4	96.0		5.77	30	70 - 130
1,1-Dichloroethylene	40.0	30.9	77.2		5.42	30	70 - 130
cis-1,2-Dichloroethylene	40.0	45.6	111		5.37	30	70 - 130
trans-1,2-Dichloroethylene	40.0	44.2	110		6.90	30	70 - 130
1,2-Dichloropropane	40.0	45.3	113		3.98	30	70 - 130
cis-1,3-Dichloropropene	40.0	42.3	106		4.53	30	70 - 130
trans-1,3-Dichloropropene	40.0	39.6	99.0		7.21	30	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-04

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B343729	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B343729-MSD2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23F1906-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	40.0	39.9	99.8		7.06	30	70 - 130
2-Hexanone (MBK)	400	405	101		9.20	30	70 - 130
Isopropylbenzene (Cumene)	40.0	38.8	97.1		4.43	30	70 - 130
Methyl Acetate	40.0	26.2	65.5	*	7.07	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	40.0	36.8	91.9		8.14	30	70 - 130
Methyl Cyclohexane	40.0	39.2	98.1		4.97	30	70 - 130
Methylene Chloride	40.0	34.4	86.0		4.99	30	70 - 130
4-Methyl-2-pentanone (MIBK)	400	414	104		7.15	30	70 - 130
Styrene	40.0	38.9	97.3		6.94	30	70 - 130
1,1,2,2-Tetrachloroethane	40.0	34.1	85.2		8.32	30	70 - 130
Tetrachloroethylene	40.0	314	54.7	*	8.15	30	70 - 130
Toluene	40.0	41.2	103		5.38	30	70 - 130
1,2,3-Trichlorobenzene	40.0	35.9	89.7		0.00	30	70 - 130
1,2,4-Trichlorobenzene	40.0	36.7	91.8		1.73	30	70 - 130
1,1,1-Trichloroethane	40.0	42.6	106		4.95	30	70 - 130
1,1,2-Trichloroethane	40.0	39.8	99.5		5.85	30	70 - 130
Trichloroethylene	40.0	43.0	105		4.72	30	70 - 130
Trichlorofluoromethane (Freon 11)	40.0	26.3	65.8	*	4.60	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40.0	31.2	78.0		4.63	30	70 - 130
Vinyl Chloride	40.0	37.6	94.1		5.68	30	70 - 130
m+p Xylene	80.0	78.4	98.0		5.46	20	70 - 130
o-Xylene	40.0	39.3	98.3		6.11	30	70 - 130
Xylenes (total)	120	118	98.1		5.68	200	0 - 200

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B343729	Laboratory ID:	B343729-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.		QC LIMITS REC.
Styrene	10.0	10.4	104		70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.63	96.3		70 - 130
Tetrachloroethylene	10.0	10.2	102		70 - 130
Toluene	10.0	10.3	103		70 - 130
1,2,3-Trichlorobenzene	10.0	9.74	97.4		70 - 130
1,2,4-Trichlorobenzene	10.0	9.96	99.6		70 - 130
1,1,1-Trichloroethane	10.0	10.3	103		70 - 130
1,1,2-Trichloroethane	10.0	10.7	107		70 - 130
Trichloroethylene	10.0	10.0	100		70 - 130
Trichlorofluoromethane (Freon 11)	10.0	6.64	66.4	*	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	7.73	77.3		70 - 130
Vinyl Chloride	10.0	10.3	103		40 - 160
m+p Xylene	20.0	20.3	101		70 - 130
o-Xylene	10.0	10.2	102		70 - 130
Xylenes (total)	30.0	30.5	102		0 - 200

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100	71.9	71.9	2.51	25	70 - 160
Benzene	10.0	10.6	106	0.471	25	70 - 130
Bromochloromethane	10.0	12.6	126	0.00	25	70 - 130
Bromodichloromethane	10.0	10.6	106	1.80	25	70 - 130
Bromoform	10.0	9.70	97.0	1.24	25	70 - 130
Bromomethane	10.0	8.05	80.5	10.9	25	40 - 160
2-Butanone (MEK)	100	107	107	1.93	25	40 - 160
Carbon Disulfide	100	88.6	88.6	0.249	25	70 - 130
Carbon Tetrachloride	10.0	10.2	102	0.489	25	70 - 130
Chlorobenzene	10.0	10.3	103	5.07	25	70 - 130
Chlorodibromomethane	10.0	10.5	105	2.55	25	70 - 130
Chloroethane	10.0	8.53	85.3	3.10	25	70 - 130
Chloroform	10.0	10.9	109	1.67	25	70 - 130
Chloromethane	10.0	8.73	87.3	14.9	25	40 - 160
Cyclohexane	10.0	11.5	115	3.55	25	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.98	99.8	1.82	25	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23F1906
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Former Diamond Cleaners_CAT B - CO SMPB00
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B343729	Laboratory ID:	B343729-BSD1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane (EDB)	10.0	10.3	103		2.35	25	70 - 130
1,2-Dichlorobenzene	10.0	10.6	106		0.00	25	70 - 130
1,3-Dichlorobenzene	10.0	10.4	104		1.53	25	70 - 130
1,4-Dichlorobenzene	10.0	10.3	103		2.26	25	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	7.82	78.2		1.55	25	40 - 160
1,1-Dichloroethane	10.0	11.8	118		0.848	25	70 - 130
1,2-Dichloroethane	10.0	10.0	100		0.702	25	70 - 130
1,1-Dichloroethylene	10.0	7.83	78.3		0.641	25	70 - 130
cis-1,2-Dichloroethylene	10.0	11.6	116		1.13	25	70 - 130
trans-1,2-Dichloroethylene	10.0	11.5	115		3.17	25	70 - 130
1,2-Dichloropropane	10.0	11.5	115		1.05	25	70 - 130
cis-1,3-Dichloropropene	10.0	12.0	120		0.587	25	70 - 130
trans-1,3-Dichloropropene	10.0	11.5	115		3.26	25	70 - 130
Ethylbenzene	10.0	10.6	106		3.56	25	70 - 130
2-Hexanone (MBK)	100	120	120		0.167	25	70 - 160
Isopropylbenzene (Cumene)	10.0	10.1	101		1.60	25	70 - 130
Methyl Acetate	10.0	8.32	83.2		0.724	25	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	10.5	105		1.15	25	70 - 130
Methyl Cyclohexane	10.0	9.91	99.1		1.40	25	70 - 130
Methylene Chloride	10.0	9.17	91.7		1.87	25	70 - 130
4-Methyl-2-pentanone (MIBK)	100	122	122		2.04	25	70 - 160
Styrene	10.0	10.5	105		1.24	25	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.95	99.5		3.27	25	70 - 130
Tetrachloroethylene	10.0	10.2	102		0.391	25	70 - 130
Toluene	10.0	10.5	105		1.35	25	70 - 130
1,2,3-Trichlorobenzene	10.0	10.0	100		3.03	25	70 - 130
1,2,4-Trichlorobenzene	10.0	10.0	100		0.700	25	70 - 130
1,1,1-Trichloroethane	10.0	10.7	107		3.24	25	70 - 130
1,1,2-Trichloroethane	10.0	10.6	106		0.842	25	70 - 130
Trichloroethylene	10.0	10.3	103		2.46	25	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	6.72	67.2	*	1.20	25	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	7.99	79.9		3.31	25	70 - 130
Vinyl Chloride	10.0	10.4	104		0.964	25	40 - 160
m+p Xylene	20.0	20.8	104		2.82	25	70 - 130
o-Xylene	10.0	10.5	105		2.90	25	70 - 130

Data Usability Summary Report

Site: Former Diamond Cleaners
Laboratory: Con-test/Pace New England – East Longmeadow, MA
SDG No.: 24K1256
Parameters: Volatile Organic Compounds (VOCs)
Data Reviewer: Nancy Bergstrom/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: January 20, 2025

Samples Reviewed and Evaluation Summary

6 Groundwater Samples: FDC-MW-002, FDC-MW-004, FDC-MW-006, FDC-MW-017, FDC-MW-023, DUP-01*

*Field duplicate of FDC-MW-002

1 Trip Blank: TRIP BLANK

The above-listed samples were collected on November 12, 2024 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
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
NA	•	Laboratory Duplicate Results
	•	Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Results
*	•	Field Duplicate Results
*	•	Internal Standard Performance
	•	Sample Results and Reported Quantitation Limits (QLs)
*	•	Target Compound Identification

*	-	All criteria were met.
NA	-	A laboratory duplicate analysis was not performed on a sample in this data set.

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 results for acetone in samples FDC-MW-002, FDC-MW-004, FDC-MW-006, FDC-MW-017, and DUP-01 were qualified as nondetect (U) due to trip blank contamination.

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

- The positive results for trichloroethene in samples FDC-MW-002 and DUP-01 were qualified as estimated (J+) with a potential high bias due to high MS/MSD recoveries. The nondetect results for methyl acetate in samples FDC-MW-002 and DUP-01 were qualified as estimated (UJ) due to low MS /MSD recoveries. These results can be used for project objectives as estimated values and as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The positive results for tetrachloroethene were qualified as estimated (J+) with a potential high bias in samples FDC-MW-002, FDC-MW-004, FDC-MW-17, and DUP-01 due to a high LCSD recovery. These results can be used for project objectives as estimated values, 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 note. A trip blank was received by the laboratory but was not listed on the chain-of-custody. The trip blank was analyzed by the laboratory and the results are included in this validation report.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All percent relative standard deviations and relative response factors (RRFs) for target compounds were within the method acceptance criteria in the initial calibrations associated with the samples in this data set.

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

The following table summarizes the percent differences (%Ds) that did not meet the method acceptance criteria in the continuing calibration (CC) standards associated with the samples in this data set and the validation actions.

CC ID	Analyte	%D	Validation Action
S114470-CCV1 11/22/2024	Dichlorodifluoromethane	25.5	The nondetect results for the noted VOCs were qualified as estimated (UJ) in the associated samples.
	1,2,3-Trichlorobenzene	25.1	
Associated samples: FDC-MW-002, FDC-MW-004, FDC-MW-006, FDC-MW-017, DUP-01, TRIP BLANK			
S114654-CCV1 11/25/2024	Bromomethane	40.4	The nondetect results for the noted VOCs were qualified as estimated (UJ) in the associated sample.
	Chlorodibromomethane	24.2	
	Chloromethane	-32.1	
	Methylene chloride	-22.2	
	Trichlorofluoromethane	34.5	
	1,1,2-Trichloro-1,2,2-trifluoroethane	28.7	
	Tetrachloroethene	24.3	The positive result for tetrachloroethene was qualified as estimated (J) in the associated sample.
Associated sample: FDC-MW-023			

Blanks

Target compounds were not detected in the laboratory method blanks associated with the samples in this data set. The following table summarizes the VOC found in the trip blank, the concentration detected, and the resulting validation actions.

Trip Blank	Analyte	Blank Concentration	Validation Action
TRIP BLANK	Acetone	7.6 J µg/L	The positive results for acetone in samples FDC-MW-002, FDC-MW-004, FDC-MW-006, FDC-MW-017, and DUP-01 were qualified as nondetect (U) at the QL. Qualification was not required for sample FDC-MW-023 since acetone was not detected in this sample.
Associated samples: All groundwater samples in this data set			

Surrogate Recoveries

The surrogate percent recoveries (%Rs) met the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample FDC-MW-002. The relative percent differences (RPDs) were within the acceptance criteria. The table below summarizes the %Rs that did not meet the acceptance criteria (70-130%) and the validation actions.

Parent Sample ID	Compound	MS %R	MSD %R	Validation Actions
FDC-MW-002	Tetrachloroethene	161	201	The positive results for trichloroethene were qualified as estimated (J+) with a potential high bias in the associated samples. The nondetect results for methyl acetate were qualified as estimated (UJ) in the associated samples.
	Trichloroethene	133	143	
	Methyl acetate	67.7	63.0	
	Carbon tetrachloride	-	132	

Parent Sample ID	Compound	MS %R	MSD %R	Validation Actions
	Trichlorofluoromethane	131	-	Qualification was not required for carbon tetrachloride, trichlorofluoromethane, and 1,2,3-trichlorobenzene since these compounds were not detected in the associated samples. Qualification was not required for tetrachloroethene since the concentration of tetrachloroethene in the unspiked sample was >4x the spike amount.
	1,2,3-Trichlorobenzene	138	139	
Associated samples: FDC-MW-002, DUP-01				
-: Met criteria				

Laboratory Duplicate Results

A laboratory duplicate analysis was not performed on a sample in this data set.

LCS/LCSD Results

LCS/LCSDs were analyzed prior to samples. The RPDs were within the acceptance criteria. The following table summarizes the LCS/LCSD %Rs that did not meet the laboratory acceptance criteria and the validation actions.

LCS/LCSD ID	Compound	LCS %R	LCSD %R	LCS %R Limits	Validation Actions
B392518-BS1/B392518-BSD1	1,2,3-Trichlorobenzene	133	136	70-130	Qualification was not required for the associated samples since 1,2,3-trichlorobenzene was not detected in the associated samples.
	Tetrachloroethene	-	132	70-130	The positive results for tetrachloroethene were qualified as estimated (J+) with a potential high bias in samples FDC-MW-002, FDC-MW-004, FDC-MW-017, and DUP-01. Qualification was not required for samples FDC-MW-006 and TRIP BLANK since tetrachloroethene was not detected in these samples.
Associated samples: FDC-MW-002, FDC-MW-004, FDC-MW-006, FDC-MW-017, DUP-01, TRIP BLANK					
B393010-BS1/B393010-BSD1	Trichlorofluoromethane	133	137	70-130	Qualification was not required for sample FDC-MW-023 since trichlorofluoromethane was not detected in this sample.
Associated sample: FDC-MW-023					
-: Met criteria					

Field Duplicate Results

Samples FDC-MW-002/DUP-01 were submitted as the field duplicate pair with this data set. The following table summarizes the RPDs and absolute differences (AbsDs), as applicable, of the detected results. All criteria were met.

Analyte	QLs (µg/L)	FDC-MW-002 (µg/L)	DUP-01 (µg/L)	RPD (%) or AbsD (µg/L)	Validation Action
Tetrachloroethene	1.0	88	91	RPD: 3.4	None; all criteria were met.
cis-1,2-Dichloroethene	1.0	30	30	RPD: 0	
trans-1,2-Dichloroethene	1.0	0.46 J	0.45 J	AbsD: 0.01	
Vinyl chloride	2.0	0.47 J	0.46 J	AbsD: 0.01	
Trichloroethene	1.0	12	13	RPD: 8.0	

Field duplicate criteria are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5× QL
- AbsD ≤ QL when one or both results are < 5× QL

Internal Standard Performance

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 dilution that was performed in this data set.

Sample ID(s)	Dilution	Reason for Dilution
FDC-MW-004	20-fold	A 20-fold dilution was performed due to the concentration of tetrachloroethene, which would have exceeded the calibration range if analyzed undiluted.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-004 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~48~~	1000	41	µg/L	20	U ~~J~~	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Benzene	ND	20	2.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Bromochloromethane	ND	20	6.4	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Bromodichloromethane	ND	10	3.7	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Bromoform	ND	20	6.0	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Bromomethane	ND	40	30	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
2-Butanone (MEK)	47	400	28	µg/L	20	J	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
n-Butylbenzene	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
sec-Butylbenzene	ND	20	3.3	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
tert-Butylbenzene	ND	20	3.3	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Carbon Disulfide	ND	100	31	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Carbon Tetrachloride	ND	100	3.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Chlorobenzene	ND	20	3.5	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Chlorodibromomethane	ND	10	2.6	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Chloroethane	ND	40	9.2	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Chloroform	ND	40	3.8	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Chloromethane	ND	40	9.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Cyclohexane	ND	100	35	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	13	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2-Dibromoethane (EDB)	ND	10	2.5	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2-Dichlorobenzene	ND	20	3.5	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,3-Dichlorobenzene	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,4-Dichlorobenzene	ND	20	3.3	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	4.0	µg/L	20	UJ	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,1-Dichloroethane	ND	20	3.0	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2-Dichloroethane	ND	20	2.5	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,1-Dichloroethylene	ND	20	3.6	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
cis-1,2-Dichloroethylene	6.2	20	4.0	µg/L	20	J	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
trans-1,2-Dichloroethylene	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2-Dichloropropane	ND	20	3.4	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
cis-1,3-Dichloropropene	ND	10	2.6	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
trans-1,3-Dichloropropene	ND	10	2.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Ethylbenzene	ND	20	2.7	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
2-Hexanone (MBK)	ND	200	27	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Isopropylbenzene (Cumene)	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Methyl Acetate	ND	20	9.6	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	3.3	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Methyl Cyclohexane	ND	20	2.7	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Methylene Chloride	ND	100	3.8	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	27	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Naphthalene	ND	40	4.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
n-Propylbenzene	ND	20	2.2	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Styrene	ND	20	2.6	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-004 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	10	2.0	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Tetrachloroethylene	2100	20	3.3	µg/L	20	J+	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Toluene	ND	20	2.3	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2,3-Trichlorobenzene	ND	100	4.3	µg/L	20	UJ	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2,4-Trichlorobenzene	ND	20	3.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,1,1-Trichloroethane	ND	20	2.8	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,1,2-Trichloroethane	ND	20	3.6	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Trichloroethylene	7.2	20	3.3	µg/L	20	J	SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Trichlorofluoromethane (Freon 11)	ND	40	2.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2,3-Trichloropropane	ND	40	5.4	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	3.2	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,2,4-Trimethylbenzene	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
1,3,5-Trimethylbenzene	ND	20	3.4	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Vinyl Chloride	ND	40	3.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
m+p Xylene	ND	40	4.9	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
o-Xylene	ND	20	3.1	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH
Xylenes (total)	ND	20	20	µg/L	20		SW-846 8260D	11/18/24	11/23/24 6:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/23/24 6:28
Toluene-d8	101	70-130		11/23/24 6:28
4-Bromofluorobenzene	104	70-130		11/23/24 6:28

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-023 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Bromomethane	ND	2.0	1.5	µg/L	1	UJ	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1	UJ	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Chloromethane	ND	2.0	0.50	µg/L	1	UJ	~~V-05~~ SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
cis-1,2-Dichloroethylene	0.22	1.0	0.20	µg/L	1	J	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Methylene Chloride	ND	5.0	0.19	µg/L	1	UJ	~~V-05~~ SW-846 8260D	11/24/24	11/25/24 12:00	TPH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-023 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Tetrachloroethylene	1.2	1.0	0.17	µg/L	1	J ~~V-06~~	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Trichloroethylene	0.59	1.0	0.17	µg/L	1	J	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1	UJ	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1	UJ	SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/24/24	11/25/24 12:00	TPH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.0	70-130		11/25/24 12:00
Toluene-d8	95.8	70-130		11/25/24 12:00
4-Bromofluorobenzene	102	70-130		11/25/24 12:00

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-002 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~2.2~~	50	2.0	µg/L	1	U ~~J~~	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
cis-1,2-Dichloroethylene	30	1.0	0.20	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
trans-1,2-Dichloroethylene	0.46	1.0	0.16	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1	UJ ~~MS-07A~~	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-002 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Tetrachloroethylene	88	1.0	0.17	µg/L	1	~~MS-19~~	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Trichloroethylene	12	1.0	0.17	µg/L	1	J+ ~~MS-12~~	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Vinyl Chloride	0.47	2.0	0.19	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 3:55	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/18/24	11/23/24 3:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		11/23/24 3:55
Toluene-d8	100	70-130		11/23/24 3:55
4-Bromofluorobenzene	104	70-130		11/23/24 3:55

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: DUP-01 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~2.7~~	50	2.0	µg/L	1	U ~~J~~	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
cis-1,2-Dichloroethylene	30	1.0	0.20	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
trans-1,2-Dichloroethylene	0.45	1.0	0.16	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: DUP-01 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Tetrachloroethylene	91	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Trichloroethylene	13	1.0	0.17	µg/L	1	J+	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Vinyl Chloride	0.46	2.0	0.19	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 4:20	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/18/24	11/23/24 4:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/23/24 4:20
Toluene-d8	100	70-130		11/23/24 4:20
4-Bromofluorobenzene	106	70-130		11/23/24 4:20

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-006 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~2.7~~	50	2.0	µg/L	1	U ~~J~~	SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,1-Dichloroethane	0.16	1.0	0.15	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
cis-1,2-Dichloroethylene	7.9	1.0	0.20	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-006 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Trichloroethylene	0.17	1.0	0.17	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:13	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		11/23/24 2:13
Toluene-d8	98.3	70-130		11/23/24 2:13
4-Bromofluorobenzene	103	70-130		11/23/24 2:13

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-017 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~2.2~~	50	2.0	µg/L	1	U ~~J~~	SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
cis-1,2-Dichloroethylene	6.2	1.0	0.20	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: FDC-MW-017 | Sampled: 11/12/2024 11:20

Sample ID: 24K1256-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Tetrachloroethylene	35	1.0	0.17	µg/L	1	J+	SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Trichloroethylene	6.7	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Vinyl Chloride	0.45	2.0	0.19	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 2:38	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/18/24	11/23/24 2:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		11/23/24 2:38
Toluene-d8	98.2	70-130		11/23/24 2:38
4-Bromofluorobenzene	106	70-130		11/23/24 2:38

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: Trip Blank | Sampled: 11/12/2024 00:00

Sample ID: 24K1256-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	7.6	50	2.0	µg/L	1	J	SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Elmira, NY | Sample Description: | Work Order: 24K1256

Date Received: 11/15/2024

Field Sample #: Trip Blank | Sampled: 11/12/2024 00:00

Sample ID: 24K1256-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	UJ	SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/18/24	11/23/24 0:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/23/24 0:04
Toluene-d8	99.4	70-130		11/23/24 0:04
4-Bromofluorobenzene	101	70-130		11/23/24 0:04

QC NONCONFORMANCE DOCUMENTATION

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton	Project:	Former Diamond Cleaners - CO 152328
Instrument ID:	GCMSVOA5	Calibration:	2401066
Lab File ID:	E24V32731.D	Calibration Date:	10/07/24 08:33
Sequence:	S114470	Injection Date:	11/22/24
Lab Sample ID:	S114470-CCV1	Injection Time:	21:06

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100.0	93.6	9.602397E-02	8.986188E-02		-6.4	20	
Benzene	A	10.00	9.64	1.163315	1.121519		-3.6	20	
Bromochloromethane	A	10.00	10.1	0.3376078	0.3411847		1.1	20	
Bromodichloromethane	A	10.00	11.2	0.2947746	0.3311506		12.3	20	
Bromoform	A	10.00	11.1	0.3065314	0.3391833		10.7	20	
Bromomethane	A	10.00	10.3	0.3073076	0.3162689		2.9	20	
2-Butanone (MEK)	A	100.0	80.0	0.1894476	0.1516407		-20.0	20	
n-Butylbenzene	A	10.00	9.58	1.25306	1.200939		-4.2	20	
sec-Butylbenzene	A	10.00	10.1	1.73379	1.747655		0.8	20	
tert-Butylbenzene	A	10.00	10.4	1.34177	1.388681		3.5	20	
Carbon Disulfide	A	100.0	95.8	0.8784511	0.8412021		-4.2	20	
Carbon Tetrachloride	A	10.00	12.0	0.4267025	0.5114504		19.9	20	
Chlorobenzene	A	10.00	10.9	1.238997	1.345517		8.6	20	
Chlorodibromomethane	A	10.00	11.7	0.2333805	0.2722439		16.7	20	
Chloroethane	A	10.00	9.25	0.2849829	0.263504		-7.5	20	
Chloroform	A	10.00	10.2	0.6050146	0.6140706		1.5	20	
Chloromethane	A	10.00	9.42	0.6275182	0.5908413		-5.8	20	
Cyclohexane	A	10.00	9.36	0.6838022	0.6402453		-6.4	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.00	9.70	7.778455E-02	7.544705E-02		-3.0	20	
1,2-Dibromoethane (EDB)	A	10.00	11.2	0.203255	0.2284761		12.4	20	
1,2-Dichlorobenzene	A	10.00	11.0	0.828913	0.9154434		10.4	20	
1,3-Dichlorobenzene	A	10.00	10.6	0.9245219	0.9830694		6.3	20	
1,4-Dichlorobenzene	A	10.00	10.8	0.9505978	1.022554		7.6	20	
Dichlorodifluoromethane (Freon 12)	A	10.00	12.6	0.3188626	0.4002201		25.5	20	*
1,1-Dichloroethane	A	10.00	10.2	0.6046831	0.6160658		1.9	20	
1,2-Dichloroethane	A	10.00	10.9	0.3326515	0.3622572		8.9	20	
1,1-Dichloroethylene	A	10.00	10.9	0.4903252	0.5363899		9.4	20	
cis-1,2-Dichloroethylene	A	10.00	9.73	0.4983917	0.4848601		-2.7	20	
trans-1,2-Dichloroethylene	A	10.00	9.97	0.4976347	0.496071		-0.3	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton	Project:	Former Diamond Cleaners - CO 152328
Instrument ID:	GCMSVOA5	Calibration:	2401066
Lab File ID:	E24V32731.D	Calibration Date:	10/07/24 08:33
Sequence:	S114470	Injection Date:	11/22/24
Lab Sample ID:	S114470-CCV1	Injection Time:	21:06

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,2-Dichloropropane	A	10.00	9.56	0.255424	0.2442586		-4.4	20	
cis-1,3-Dichloropropene	A	10.00	10.2	0.3414836	0.3467744		1.5	20	
trans-1,3-Dichloropropene	A	10.00	10.4	0.2840811	0.2943924		3.6	20	
Ethylbenzene	A	10.00	10.9	1.991904	2.169394		8.9	20	
2-Hexanone (MBK)	A	100.0	101	0.1578009	0.1592332		0.9	20	
Isopropylbenzene (Cumene)	A	10.00	11.0	1.916873	2.112591		10.2	20	
p-Isopropyltoluene (p-Cymene)	A	10.00	10.3	1.515531	1.559877		2.9	20	
Methyl Acetate	A	10.00	9.70	0.4139997	0.4015858		-3.0	20	
Methyl tert-Butyl Ether (MTBE)	A	10.00	9.53	0.7821541	0.745692		-4.7	20	
Methyl Cyclohexane	A	10.00	9.37	0.3202525	0.3001852		-6.3	20	
Methylene Chloride	A	10.00	10.3	0.5468243	0.5636334		3.1	20	
4-Methyl-2-pentanone (MIBK)	A	100.0	104	0.2249997	0.2344999		4.2	20	
Naphthalene	A	10.00	10.4	0.9430242	0.9803781		4.0	20	
n-Propylbenzene	A	10.00	10.7	2.102766	2.249444		7.0	20	
Styrene	A	10.00	11.4	1.188394	1.353137		13.9	20	
1,1,2,2-Tetrachloroethane	A	10.00	9.46	0.4834308	0.4573487		-5.4	20	
Tetrachloroethylene	A	10.00	12.0	0.2480258	0.2975841		20.0	20	
Toluene	A	10.00	10.5	0.8593368	0.9032182		5.1	20	
1,2,3-Trichlorobenzene	A	10.00	12.5	0.3104076	0.3882714		25.1	20	*
1,2,4-Trichlorobenzene	A	10.00	11.4	0.4330175	0.4920766		13.6	20	
1,1,1-Trichloroethane	A	10.00	11.3	0.4765354	0.5391333		13.1	20	
1,1,2-Trichloroethane	A	10.00	10.7	0.1849714	0.1971403		6.6	20	
Trichloroethylene	A	10.00	10.7	0.2269485	0.2428391		7.0	20	
Trichlorofluoromethane (Freon 11)	A	10.00	11.9	0.489222	0.5827656		19.1	20	
1,2,3-Trichloropropane	A	10.00	10.2	0.3759391	0.3832682		1.9	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.00	10.3	0.3155157	0.3243683		2.8	20	
1,2,4-Trimethylbenzene	A	10.00	10.4	1.531211	1.593311		4.1	20	
1,3,5-Trimethylbenzene	A	10.00	10.9	1.459604	1.587614		8.8	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton	Project:	Former Diamond Cleaners - CO 152328
Instrument ID:	GCMSVOA2	Calibration:	2301046
Lab File ID:	B24V33003.D	Calibration Date:	08/22/23 11:59
Sequence:	S114654	Injection Date:	11/25/24
Lab Sample ID:	S114654-CCV1	Injection Time:	09:23

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100.0	89.4	0.1886873	0.1687217		-10.6	20	
Benzene	A	10.00	10.3	1.87242	1.92025		2.6	20	
Bromochloromethane	A	10.00	10.9	0.2374894	0.2597836		9.4	20	
Bromodichloromethane	A	10.00	11.8	0.3633148	0.4282185		17.9	20	
Bromoform	A	10.00	11.7	0.3942354	0.4622077		17.2	20	
Bromomethane	A	10.00	14.0	0.2918845	0.4098378		40.4	20	*
2-Butanone (MEK)	A	100.0	84.7	0.2953406	0.2501786		-15.3	20	
n-Butylbenzene	A	10.00	9.78	2.069179	2.022752		-2.2	20	
sec-Butylbenzene	A	10.00	9.50	2.728342	2.592687		-5.0	20	
tert-Butylbenzene	A	10.00	9.66	1.965804	1.898239		-3.4	20	
Carbon Disulfide	A	100.0	116	1.128181	1.303583		15.5	20	
Carbon Tetrachloride	A	10.00	10.7	0.7037482	0.7528378		7.0	20	
Chlorobenzene	A	10.00	11.2	1.618839	1.809391		11.8	20	
Chlorodibromomethane	A	10.00	12.4	0.3138034	0.3897782		24.2	20	*
Chloroethane	A	10.00	10.9	0.3570477	0.389252		9.0	20	
Chloroform	A	10.00	11.1	0.7941618	0.8815389		11.0	20	
Chloromethane	A	10.00	6.79	0.921604	0.6256979		-32.1	20	*
Cyclohexane	A	10.00	8.06	1.151711	0.9288493		-19.4	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.00	9.64	0.1131143	0.1090116		-3.6	20	
1,2-Dibromoethane (EDB)	A	10.00	11.8	0.2715205	0.3209761		18.2	20	
1,2-Dichlorobenzene	A	10.00	10.3	1.145222	1.183778		3.4	20	
1,3-Dichlorobenzene	A	10.00	10.1	1.234696	1.245329		0.9	20	
1,4-Dichlorobenzene	A	10.00	10.3	1.295066	1.330774		2.8	20	
Dichlorodifluoromethane (Freon 12)	A	10.00	9.63	0.5076679	0.4890853		-3.7	20	
1,1-Dichloroethane	A	10.00	9.19	0.9157079	0.8414257		-8.1	20	
1,2-Dichloroethane	A	10.00	11.2	0.3692397	0.4117608		11.5	20	
1,1-Dichloroethylene	A	10.00	9.81	0.7183183	0.7046014		-1.9	20	
cis-1,2-Dichloroethylene	A	10.00	9.69	0.8250032	0.7994602		-3.1	20	
trans-1,2-Dichloroethylene	A	10.00	9.11	0.7266709	0.6616834		-8.9	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton	Project:	Former Diamond Cleaners - CO 152328
Instrument ID:	GCMSVOA2	Calibration:	2301046
Lab File ID:	B24V33003.D	Calibration Date:	08/22/23 11:59
Sequence:	S114654	Injection Date:	11/25/24
Lab Sample ID:	S114654-CCV1	Injection Time:	09:23

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,2-Dichloropropane	A	10.00	10.1	0.3092735	0.3113285		0.7	20	
cis-1,3-Dichloropropene	A	10.00	11.1	0.4675584	0.5191534		11.0	20	
trans-1,3-Dichloropropene	A	10.00	11.3	0.4021062	0.4551585		13.2	20	
Ethylbenzene	A	10.00	10.6	2.751109	2.917969		6.1	20	
2-Hexanone (MBK)	A	100.0	88.3	0.2910779	0.257078		-11.7	20	
Isopropylbenzene (Cumene)	A	10.00	10.6	2.912551	3.075665		5.6	20	
p-Isopropyltoluene (p-Cymene)	A	10.00	9.44	2.477135	2.339301		-5.6	20	
Methyl Acetate	A	10.00	10.6	0.5480667	0.5799222		5.8	20	
Methyl tert-Butyl Ether (MTBE)	A	10.00	10.5	1.240174	1.301193		4.9	20	
Methyl Cyclohexane	A	10.00	11.6	0.4844583	0.5611991		15.8	20	
Methylene Chloride	A	10.00	7.78	0.8289869	0.6447226		-22.2	20	*
4-Methyl-2-pentanone (MIBK)	A	100.0	92.8	0.3874748	0.3593697		-7.3	20	
Naphthalene	A	10.00	9.57	1.601921	1.533523		-4.3	20	
n-Propylbenzene	A	10.00	10.6	3.392799	3.601291		6.1	20	
Styrene	A	10.00	10.8	1.798821	1.951143		8.5	20	
1,1,2,2-Tetrachloroethane	A	10.00	11.5	0.6543669	0.7536832		15.2	20	
Tetrachloroethylene	A	10.00	12.4	0.259656	0.3228622		24.3	20	*
Toluene	A	10.00	10.9	1.280736	1.398107		9.2	20	
1,2,3-Trichlorobenzene	A	10.00	9.19	0.5277462	0.4849694		-8.1	20	
1,2,4-Trichlorobenzene	A	10.00	9.25	0.6572101	0.6077682		-7.5	20	
1,1,1-Trichloroethane	A	10.00	10.9	0.7320261	0.7984812		9.1	20	
1,1,2-Trichloroethane	A	10.00	11.5	0.2440284	0.2806997		15.0	20	
Trichloroethylene	A	10.00	11.5	0.2887468	0.330774		14.6	20	
Trichlorofluoromethane (Freon 11)	A	10.00	13.4	0.6425119	0.8640224		34.5	20	*
1,2,3-Trichloropropane	A	10.00	11.3	0.214651	0.2421232		12.8	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.00	12.9	0.3878568	0.4992724		28.7	20	*
1,2,4-Trimethylbenzene	A	10.00	9.79	2.189137	2.143307		-2.1	20	
1,3,5-Trimethylbenzene	A	10.00	10.8	2.399254	2.587811		7.9	20	

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FDC-MW-002

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B392518	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B392518-MS2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	24K1256-03
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.		QC LIMITS REC.
1,2-Dichloropropane	10.00	ND	10.6	106		70 - 130
cis-1,3-Dichloropropene	10.00	ND	10.7	107		70 - 130
trans-1,3-Dichloropropene	10.00	ND	10.8	108		70 - 130
Ethylbenzene	10.00	ND	12.0	120		70 - 130
2-Hexanone (MBK)	100.0	ND	112	112		70 - 130
Isopropylbenzene (Cumene)	10.00	ND	12.2	122		70 - 130
p-Isopropyltoluene (p-Cymene)	10.00	ND	10.8	108		70 - 130
Methyl Acetate	10.00	ND	6.77	67.7	*	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.00	ND	10.4	104		70 - 130
Methyl Cyclohexane	10.00	ND	10.2	102		70 - 130
Methylene Chloride	10.00	ND	11.2	112		70 - 130
4-Methyl-2-pentanone (MIBK)	100.0	ND	114	114		70 - 130
Naphthalene	10.00	ND	11.4	114		70 - 130
n-Propylbenzene	10.00	ND	12.0	120		70 - 130
Styrene	10.00	ND	9.82	98.2		70 - 130
1,1,2,2-Tetrachloroethane	10.00	ND	10.7	107		70 - 130
Tetrachloroethylene	10.00	88.0	104	161	*	70 - 130
Toluene	10.00	ND	12.1	121		70 - 130
1,2,3-Trichlorobenzene	10.00	ND	13.8	138	*	70 - 130
1,2,4-Trichlorobenzene	10.00	ND	12.1	121		70 - 130
1,1,1-Trichloroethane	10.00	ND	12.5	125		70 - 130
1,1,2-Trichloroethane	10.00	ND	10.9	109		70 - 130
Trichloroethylene	10.00	12.2	25.5	133	*	70 - 130
Trichlorofluoromethane (Freon 11)	10.00	ND	13.1	131	*	70 - 130
1,2,3-Trichloropropane	10.00	ND	10.6	106		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.00	ND	11.6	116		70 - 130
1,2,4-Trimethylbenzene	10.00	ND	10.6	106		70 - 130
1,3,5-Trimethylbenzene	10.00	ND	12.1	121		70 - 130
Vinyl Chloride	10.00	0.470	12.4	119		70 - 130
m+p Xylene	20.00	ND	24.3	122		70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FDC-MW-002

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B392518	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B392518-MSD2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	24K1256-03
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	93.5	91.3		5.30	30	70 - 130
Benzene	10.00	10.3	103		3.35	30	70 - 130
Bromochloromethane	10.00	10.5	105		4.36	30	70 - 130
Bromodichloromethane	10.00	12.1	121		5.08	30	70 - 130
Bromoform	10.00	12.2	122		4.32	30	70 - 130
Bromomethane	10.00	11.0	110		10.3	30	70 - 130
2-Butanone (MEK)	100.0	84.6	84.6		0.224	30	70 - 130
n-Butylbenzene	10.00	10.2	102		4.14	30	70 - 130
sec-Butylbenzene	10.00	10.7	107		0.467	30	70 - 130
tert-Butylbenzene	10.00	11.2	112		1.76	30	70 - 130
Carbon Disulfide	100.0	102	102		2.50	30	70 - 130
Carbon Tetrachloride	10.00	13.2	132	*	2.93	30	70 - 130
Chlorobenzene	10.00	12.2	122		0.988	30	70 - 130
Chlorodibromomethane	10.00	12.3	123		1.37	30	70 - 130
Chloroethane	10.00	9.78	97.8		2.62	30	70 - 130
Chloroform	10.00	10.4	104		3.50	30	70 - 130
Chloromethane	10.00	10.2	102		1.07	30	70 - 130
Cyclohexane	10.00	9.92	99.2		2.29	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.00	9.41	94.1		15.9	30	70 - 130
1,2-Dibromoethane (EDB)	10.00	11.1	111		8.44	30	70 - 130
1,2-Dichlorobenzene	10.00	11.8	118		2.14	30	70 - 130
1,3-Dichlorobenzene	10.00	11.5	115		0.695	30	70 - 130
1,4-Dichlorobenzene	10.00	11.2	112		1.15	30	70 - 130
Dichlorodifluoromethane (Freon 12)	10.00	11.0	110		2.88	30	70 - 130
1,1-Dichloroethane	10.00	10.8	108		1.02	30	70 - 130
1,2-Dichloroethane	10.00	11.4	114		2.78	30	70 - 130
1,1-Dichloroethylene	10.00	12.0	120		0.747	30	70 - 130
cis-1,2-Dichloroethylene	10.00	40.6	111		0.197	30	70 - 130
trans-1,2-Dichloroethylene	10.00	11.3	108		1.76	30	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FDC-MW-002

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B392518	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B392518-MSD2
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	24K1256-03
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichloropropane	10.00	10.4	104		1.05	30	70 - 130
cis-1,3-Dichloropropene	10.00	10.2	102		5.18	30	70 - 130
trans-1,3-Dichloropropene	10.00	10.2	102		5.89	30	70 - 130
Ethylbenzene	10.00	12.0	120		0.334	30	70 - 130
2-Hexanone (MBK)	100.0	105	105		6.42	30	70 - 130
Isopropylbenzene (Cumene)	10.00	12.1	121		0.822	30	70 - 130
p-Isopropyltoluene (p-Cymene)	10.00	11.1	111		2.55	30	70 - 130
Methyl Acetate	10.00	6.30	63.0	*	7.19	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.00	10.5	105		1.34	30	70 - 130
Methyl Cyclohexane	10.00	9.74	97.4		4.91	30	70 - 130
Methylene Chloride	10.00	10.5	105		6.38	30	70 - 130
4-Methyl-2-pentanone (MIBK)	100.0	107	107		6.82	30	70 - 130
Naphthalene	10.00	11.5	115		0.611	30	70 - 130
n-Propylbenzene	10.00	11.7	117		2.79	30	70 - 130
Styrene	10.00	10.0	100		2.32	30	70 - 130
1,1,2,2-Tetrachloroethane	10.00	10.5	105		1.60	30	70 - 130
Tetrachloroethylene	10.00	108	201	*	3.81	30	70 - 130
Toluene	10.00	11.4	114		6.22	30	70 - 130
1,2,3-Trichlorobenzene	10.00	13.9	139	*	0.577	30	70 - 130
1,2,4-Trichlorobenzene	10.00	12.0	120		0.581	30	70 - 130
1,1,1-Trichloroethane	10.00	12.5	125		0.560	30	70 - 130
1,1,2-Trichloroethane	10.00	11.6	116		5.96	30	70 - 130
Trichloroethylene	10.00	26.5	143	*	3.85	30	70 - 130
Trichlorofluoromethane (Freon 11)	10.00	12.5	125		4.99	30	70 - 130
1,2,3-Trichloropropane	10.00	10.6	106		0.00	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.00	10.6	106		9.09	30	70 - 130
1,2,4-Trimethylbenzene	10.00	10.5	105		1.33	30	70 - 130
1,3,5-Trimethylbenzene	10.00	11.7	117		3.62	30	70 - 130
Vinyl Chloride	10.00	12.3	118		0.648	30	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B392518	Laboratory ID:	B392518-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.		QC LIMITS REC.
Methyl tert-Butyl Ether (MTBE)	10.00	10.0	100		70 - 130
Methyl Cyclohexane	10.00	9.65	96.5		70 - 130
Methylene Chloride	10.00	10.4	104		70 - 130
4-Methyl-2-pentanone (MIBK)	100.0	110	110		70 - 160
Naphthalene	10.00	11.6	116		40 - 130
n-Propylbenzene	10.00	10.8	108		70 - 130
Styrene	10.00	11.4	114		70 - 130
1,1,2,2-Tetrachloroethane	10.00	10.2	102		70 - 130
Tetrachloroethylene	10.00	12.3	123		70 - 130
Toluene	10.00	11.1	111		70 - 130
1,2,3-Trichlorobenzene	10.00	13.3	133	*	70 - 130
1,2,4-Trichlorobenzene	10.00	12.0	120		70 - 130
1,1,1-Trichloroethane	10.00	11.9	119		70 - 130
1,1,2-Trichloroethane	10.00	11.0	110		70 - 130
Trichloroethylene	10.00	11.7	117		70 - 130
Trichlorofluoromethane (Freon 11)	10.00	12.4	124		70 - 130
1,2,3-Trichloropropane	10.00	10.5	105		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.00	10.6	106		70 - 130
1,2,4-Trimethylbenzene	10.00	10.6	106		70 - 130
1,3,5-Trimethylbenzene	10.00	10.9	109		70 - 130
Vinyl Chloride	10.00	11.6	116		40 - 160
m+p Xylene	20.00	22.7	113		70 - 130
o-Xylene	10.00	11.3	113		70 - 130
Xylenes (total)	30.00	34.0	113		0 - 200

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	103	103	5.31	25	70 - 160
Benzene	10.00	10.1	101	0.886	25	70 - 130
Bromochloromethane	10.00	10.6	106	4.23	25	70 - 130
Bromodichloromethane	10.00	12.2	122	8.84	25	70 - 130
Bromoform	10.00	12.8	128	5.54	25	70 - 130
Bromomethane	10.00	11.8	118	11.4	25	40 - 160
2-Butanone (MEK)	100.0	88.4	88.4	4.38	25	40 - 160
n-Butylbenzene	10.00	10.6	106	5.60	25	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B392518	Laboratory ID:	B392518-BSD1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Styrene	10.00	12.0	120		4.97	25	70 - 130
1,1,2,2-Tetrachloroethane	10.00	11.2	112		8.90	25	70 - 130
Tetrachloroethylene	10.00	13.2	132	*	7.12	25	70 - 130
Toluene	10.00	11.9	119		6.43	25	70 - 130
1,2,3-Trichlorobenzene	10.00	13.6	136	*	2.53	25	70 - 130
1,2,4-Trichlorobenzene	10.00	12.3	123		2.47	25	70 - 130
1,1,1-Trichloroethane	10.00	12.3	123		3.56	25	70 - 130
1,1,2-Trichloroethane	10.00	11.4	114		3.56	25	70 - 130
Trichloroethylene	10.00	11.7	117		0.171	25	70 - 130
Trichlorofluoromethane (Freon 11)	10.00	12.4	124		0.323	25	70 - 130
1,2,3-Trichloropropane	10.00	11.4	114		7.93	25	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.00	11.0	110		3.61	25	70 - 130
1,2,4-Trimethylbenzene	10.00	10.9	109		3.35	25	70 - 130
1,3,5-Trimethylbenzene	10.00	12.0	120		10.1	25	70 - 130
Vinyl Chloride	10.00	11.6	116		0.172	25	40 - 160
m+p Xylene	20.00	24.7	124		8.69	25	70 - 130
o-Xylene	10.00	12.5	125		10.1	25	70 - 130
Xylenes (total)	30.00	37.3	124		9.18	200	0 - 200

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B393010	Laboratory ID:	B393010-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.		QC LIMITS REC.
Methyl tert-Butyl Ether (MTBE)	10.00	10.6	106		70 - 130
Methyl Cyclohexane	10.00	11.1	111		70 - 130
Methylene Chloride	10.00	7.75	77.5		70 - 130
4-Methyl-2-pentanone (MIBK)	100.0	94.3	94.3		70 - 160
Naphthalene	10.00	10.2	102		40 - 130
n-Propylbenzene	10.00	10.6	106		70 - 130
Styrene	10.00	10.9	109		70 - 130
1,1,2,2-Tetrachloroethane	10.00	11.8	118		70 - 130
Tetrachloroethylene	10.00	11.7	117		70 - 130
Toluene	10.00	10.6	106		70 - 130
1,2,3-Trichlorobenzene	10.00	9.36	93.6		70 - 130
1,2,4-Trichlorobenzene	10.00	9.41	94.1		70 - 130
1,1,1-Trichloroethane	10.00	10.9	109		70 - 130
1,1,2-Trichloroethane	10.00	11.6	116		70 - 130
Trichloroethylene	10.00	11.4	114		70 - 130
Trichlorofluoromethane (Freon 11)	10.00	13.3	133	*	70 - 130
1,2,3-Trichloropropane	10.00	11.8	118		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.00	12.8	128		70 - 130
1,2,4-Trimethylbenzene	10.00	9.61	96.1		70 - 130
1,3,5-Trimethylbenzene	10.00	10.8	108		70 - 130
Vinyl Chloride	10.00	8.67	86.7		40 - 160
m+p Xylene	20.00	20.9	104		70 - 130
o-Xylene	10.00	10.4	104		70 - 130
Xylenes (total)	30.00	31.3	104		0 - 200

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	88.6	88.6	4.66	25	70 - 160
Benzene	10.00	10.4	104	2.74	25	70 - 130
Bromochloromethane	10.00	10.9	109	3.94	25	70 - 130
Bromodichloromethane	10.00	11.6	116	1.83	25	70 - 130
Bromoform	10.00	12.1	121	1.59	25	70 - 130
Bromomethane	10.00	14.1	141	4.72	25	40 - 160
2-Butanone (MEK)	100.0	85.4	85.4	3.58	25	40 - 160
n-Butylbenzene	10.00	9.69	96.9	1.04	25	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24K1256
Client:	NYDEC_TRC Environmental Corporation- Clifton Par	Project:	Former Diamond Cleaners - CO 152328
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B393010	Laboratory ID:	B393010-BSD1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Styrene	10.00	10.9	109		0.275	25	70 - 130
1,1,2,2-Tetrachloroethane	10.00	11.6	116		1.63	25	70 - 130
Tetrachloroethylene	10.00	11.9	119		2.12	25	70 - 130
Toluene	10.00	10.8	108		2.06	25	70 - 130
1,2,3-Trichlorobenzene	10.00	8.96	89.6		4.37	25	70 - 130
1,2,4-Trichlorobenzene	10.00	8.98	89.8		4.68	25	70 - 130
1,1,1-Trichloroethane	10.00	10.9	109		0.276	25	70 - 130
1,1,2-Trichloroethane	10.00	11.5	115		0.954	25	70 - 130
Trichloroethylene	10.00	11.2	112		2.04	25	70 - 130
Trichlorofluoromethane (Freon 11)	10.00	13.7	137	*	3.10	25	70 - 130
1,2,3-Trichloropropane	10.00	11.8	118		0.254	25	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.00	13.0	130		2.33	25	70 - 130
1,2,4-Trimethylbenzene	10.00	9.75	97.5		1.45	25	70 - 130
1,3,5-Trimethylbenzene	10.00	11.0	110		1.74	25	70 - 130
Vinyl Chloride	10.00	9.11	91.1		4.95	25	40 - 160
m+p Xylene	20.00	21.4	107		2.51	25	70 - 130
o-Xylene	10.00	10.9	109		4.12	25	70 - 130
Xylenes (total)	30.00	32.3	108		3.05	200	0 - 200

Appendix E

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners	**LOCATION ID**	MW-002
PROJECT NUMBER	386554.0011	**DATE**	6/13/2023
SAMPLE ID	MW-002	**START TIME**	11:58
SAMPLE TIME	12:28	**END TIME**	12:30
		SITE NAME/NUMBER	808030
		PAGE	1 OF 1

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	11.41 FT	**FINAL DTW (BMP)**	11.41 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	24.09 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	12.68 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.08 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.17 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1158	**BEGIN PURGING**									
1203	0	150	16.4	1.782	6.98	2.16	122.52	180.8	18	
1208	0	150	16.3	1.802	7.08	4.41	64.1	176.4	18	
1213	0	150	16.6	1.788	7.02	1.1	59.89	173.1	18	
1218	0	150	16.5	1.792	7.02	0.99	60.01	170.6	18	
1223	0	150	16.5	1.785	7.02	0.98	58.92	168.7	18	

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

17	**1.79**	**7.0**	**1.0**	**58.9**	**170**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER YSI DSS Pro
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

MW-002 @ 1228
DUP @ 1200
VOCs

Sampler Signature: Print Nam

Checked By Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners	**LOCATION ID**	MW-004
PROJECT NUMBER	386554.0011	**DATE**	6/13/2023
SAMPLE ID	MW-004	**START TIME**	12:02
SAMPLE TIME	12:37	**END TIME**	12:40
		SITE NAME/NUMBER	808030
		PAGE	1 OF 1

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	10.80 FT	**FINAL DTW (BMP)**	10.86 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	21.31 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10.51 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0098 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.72 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.91 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
1202	**BEGIN PURGING**									
1207	0.05	100	16.5	1.104	7.15	4.82	2.27	122.2	16	
1212	0.01	100	17.2	1.119	7.14	4.60	1.17	119.6	16	
1217	0.00	100	16.0	1.129	7.15	4.58	1.75	115.3	16	
1222	0.01	100	17.4	1.124	7.11	4.38	2.83	113.3	16	
1227	-0.01	100	15.8	1.122	7.13	4.60	2.60	112.8	16	
1232	0.00	100	15.7	1.141	7.15	4.65	2.06	111.6	16	

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

16	**1.41**	**7.2**	**4.7**	**2.1**	**110**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER YSI DSS Pro
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

Sampler Signature: Print Nam

Checked By Date:

SKETCH/NOTES

MW-004 @ 1237
MW-004 MS @ 1237
MW-004 MSD @ 1237
VOCs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners	**LOCATION ID**	MW-006
PROJECT NUMBER	386554.0011	**DATE**	6/13/2023
SAMPLE ID	MW-006	**START TIME**	12:55
SAMPLE TIME	13:25	**END TIME**	13:30
		SITE NAME/NUMBER	808030
		PAGE	1 OF 1

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	8.71 FT	**FINAL DTW (BMP)**	8.71 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.48 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10.77 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.77 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.17 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1255	**BEGIN PURGING**									
1300	0	150	20.7	2.347	7.19	4.12	18.82	181.4	15	
1305	0	150	15.3	2.332	7.15	1.51	11.01	181.4	15	
1310	0	150	15.0	2.304	7.15	0.99	8.84	177.9	15	
1315	0	150	14.7	2.301	7.15	0.96	5.43	176.4	15	
1320	0	150	14.7	2.297	7.14	0.93	4.97	174.0	15	

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

15	**2.3**	**7.1**	**0.9**	**5.0**	**170**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER YSI DSS Pro
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

MW-006 @ 1325
VOCs

Sampler Signature: Print Nam

Checked By Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners	**LOCATION ID**	MW-016
PROJECT NUMBER	386554.0011	**DATE**	6/13/2023
SAMPLE ID	MW-016	**START TIME**	13:45
SAMPLE TIME	14:15	**END TIME**	14:20
		SITE NAME/NUMBER	808030
		PAGE	1 OF 1

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	11.94 FT	**FINAL DTW (BMP)**	11.97 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	20.82 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	8.88 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0049 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.46 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1345	**BEGIN PURGING**									
1350	0.01	100	17.2	1.624	7.1	4.03	2.68	140.4	17	
1355	0.02	100	17.2	1.615	7.07	4.07	2.09	140.2	17	
1400	0.00	100	16.3	1.603	7.07	4.20	1.6	138.6	17	
1405	0.00	100	16.7	1.604	7.06	4.33	1.33	137	17	
1410	0.00	100	17.4	1.604	7.07	4.23	1.63	133.3	17	

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

17.0	**1.60**	**7.1**	**4.2**	**1.6**	**130**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

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

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

MW-016 @ 1415
VOCs

Sampler Signature: Print Nam

Checked By Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners	**LOCATION ID**	MW-017
PROJECT NUMBER	386554.0011	**DATE**	6/13/2023
SAMPLE ID	MW-017	**START TIME**	13:00
SAMPLE TIME	13:35	**END TIME**	13:40
		SITE NAME/NUMBER	808030
		PAGE	1 OF 1

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	12.30 FT	**FINAL DTW (BMP)**	12.32 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.13 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	16.83 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0033 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.91 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**									
1305	----------	----------	----------	----------	----------	----------	----------	----------	----------	Intake Issue, fixed
1310	0.1	100	16.4	1.734	7.10	3.28	1.29	137.5	15	
1315	0.0	100	16.9	1.732	7.06	2.79	1.09	138.3	15	
1320	0.0	100	17.2	1.730	7.04	2.53	4.70	137.3	15	
1325	0.0	100	17.3	1.736	7.03	2.49	2.96	135.9	15	
1330	0.1	100	17.0	1.745	7.02	2.52	0.28	133.7	15	

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

17	**1.75**	**7.0**	**2.5**	**0.3**	**130**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER YSI DSS Pro
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

MW-017 @ 1335
VOCs

Sampler Signature: Print Nam

Checked By Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners	**LOCATION ID**	MW-023
PROJECT NUMBER	386554.0011	**DATE**	6/13/2023
SAMPLE ID	MW-023	**START TIME**	13:37
SAMPLE TIME	14:07	**END TIME**	14:10
		SITE NAME/NUMBER	808030
		PAGE	1 OF 1

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	11.19 FT	**FINAL DTW (BMP)**	11.19 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.47 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	18.28 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	3.00 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.17 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1337	**BEGIN PURGING**									
1342	0.00	150	19.5	1.295	7.29	4.27	5.63	178.4	20	
1347	0.00	150	15.9	1.231	7.25	3.05	6.32	179.0	20	
1352	0.00	150	15.0	1.216	7.23	2.74	5.47	178.7	20	
1357	0.00	150	14.7	1.218	7.22	2.68	6.11	178.8	20	
1402	0.00	150	14.7	1.220	7.20	2.61	6.53	179.2	20	

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

15	**1.22**	**7.2**	**2.6**	**6.5**	**180**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [X] WQ METER YSI DSS Pro
- [ ] TURB. METER
- [X] PUMP Geopump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

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

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

MW-023 @ 1407
VOCs

Sampler Signature: Print Nam

Checked By Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-002
SAMPLE TIME	11:40

LOCATION ID	MW-002
DATE	11/12/2024
START TIME	10:20
END TIME	12:15
SITE NAME/NUMBER	808030
PAGE	1 OF 2

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	x		
CASING	x		
LOCKED			x
COLLAR			x

INITIAL DTW (BMP)	12.51 FT	**FINAL DTW (BMP)**	12.58 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	24.13 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.62 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
1020	**BEGIN PURGING**									
1025	12.62	100	12.8	1.848	6.92	2.86	106.3	154.6		
1030	12.65	100	12.8	1.847	6.96	1.53	100	151.3		
1035	12.65	100	13.2	1.842	6.97	1.15	69.3	148.3		
1040	12.58	100	13.1	1.844	6.98	1	40.48	146.7		
1045	12.58	100	12.8	1.852	6.98	0.91	26.38	144.4		
1050	12.58	100	13.1	1.859	6.97	0.85	16.17	142.9		
1055	12.58	100	13.3	1.862	6.97	0.81	21.63	1414.3		
1100	12.58	100	13.1	1.86	6.97	0.79	20.81	139.3		
1105	12.58	100	13.1	1.856	6.98	0.75	27.05	138.3		
1110	12.58	100	13.1	1.856	6.98	0.76	21.04	137.1		
1115	12.58	100	13.4	1.849	6.98	0.73	72.1	135.7		

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

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [x] WL METER Dipper-t
- [x] PID Minirae 3000
- [x] WQ METER YSI
- [ ] 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
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

Initial water came up black-oil lookingused previous tubing
MS/MSD/Dup 01 taken

Sampler Signature: Print Name Dan MacDougall

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-002
SAMPLE TIME	11:40

LOCATION ID	MW-002
DATE	11/12/2024
START TIME	10:20
END TIME	12:15
SITE NAME/NUMBER	808030
PAGE	2 OF 2

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	12.51 FT	**FINAL DTW (BMP)**	12.58 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	24.13 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.62 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
	BEGIN PURGING									
1120	12.58	100	12.5	1.857	7	0.76	18.44	134.7		
1125	12.58	100	12.3	1.855	7	0.77	14.01	134		
1130	12.58	100	12.2	1.851	7	0.78	13.02	133.7		
1135	12.58	100	12.3	1.851	7	0.78	14.21	132.5		

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

12	**1.85**	**7**	**0.78**	**14**	**133**	

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

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] 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 _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] 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
X	See Chain of Custody							

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

MS/MSD/Dup 01 collected here

Sampler Signature: Print Name Dan MacDougall

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-004
SAMPLE TIME	11:20

LOCATION ID	MW-004
DATE	11/12/2024
START TIME	10:11
END TIME	11:30
SITE NAME/NUMBER	808030
PAGE	1 OF 2

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	12.79 FT	**FINAL DTW (BMP)**	13.04 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.9 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.7 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	7.11 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.04 GAL	**PID WELL MOUTH**	5 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.17 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.56 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
	BEGIN PURGING									
1015	13.05	100	15.6	1.164	7.2	2.42	225.14	-89.1	14.8	
1020	13.03	100	15.2	1.173	7.21	2.05	262.1	-114.1	14.8	
1025	13.03	100	15.1	1.241	7.21	1.94	238..28	-124.1	14.8	
1030	13.03	100	15.1	1.266	7.21	1.83	221.99	-125.8	14.8	
1035	13.03	100	15.1	1.303	7.22	1.91	268.1	-128.8	14.8	
1040	13.03	100	15.1	1.321	7.23	1.69	246.99	-133	14.8	
1045	13.03	100	15	1.357	7.23	1.74	309.75	-129.1	14.8	
1050	13.05	100	15.1	1.555	7.2	1.88	420.75	-116.1	14.8	
1055	13.04	100	15	1.579	7.21	1.83	286.24	-113.1	14.8	
1100	13.04	100	15	1.584	7.21	1.86	245.25	-113.2	14.8	
1105	13.04	100	15	1.596	7.21	1.83	215.15	-109.3	14.8	

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

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

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

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

EQUIPMENT USED
- [x] WL METER Dipper-t
- [x] PID Minirae 3000
- [x] WQ METER YSI
- [ ] 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
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

Sampler Signature: Print Name Liam Merrow

Checked By: Date: 11/12/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-004
SAMPLE TIME	11:20

LOCATION ID	MW-004
DATE	11/12/2024
START TIME	10:11
END TIME	11:30
SITE NAME/NUMBER	808030
PAGE	2 OF 2

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

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

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

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	12.79 FT	**FINAL DTW (BMP)**	13.04 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.9 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.7 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	7.11 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.0 GAL	**PID WELL MOUTH**	5 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.17 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.56 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
	BEGIN PURGING									
1110	13.04	100	15	1.598	7.21	1.83	178.12	-107.8	14.8	
1115	13.04	100	15	1.600	7.21	1.84	185.26	-104.1	14.8	

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

	15	**1.6**	**7.2**	**1.8**	**185**	**-100**

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [x] WL METER Dipper-t
- [x] PID Minirae 3000
- [x] WQ METER YSI
- [ ] 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
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED

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

SKETCH/NOTES

Sampler Signature: Print Name Liam Merrow

Checked By: Date: 11/12/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-006
SAMPLE TIME	10:45

LOCATION ID	MW-006
DATE	11/12/2024
START TIME	10:00
END TIME	10:50
SITE NAME/NUMBER	808030
PAGE	1 OF 1

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

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

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

WELL INTEGRITY

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

INITIAL DTW (BMP)	9.75 FT	**FINAL DTW (BMP)**	9.83 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.5 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	9.75 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.01 GAL	**PID WELL MOUTH**	0.7 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.64 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.91 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
1005	**BEGIN PURGING**									
1010	9.94	100	14.8	1.924	7.09	0.73	5.6	109.6	14.8	
1015	9.93	100	14.7	1.962	7.09	0.42	31.33	55.9	14.8	
1020	9.9	100	14.6	1.927	7.1	0.33	16.55	28.7	14.8	
1025	9.88	100	14.5	1.932	7.09	0.26	6.89	11.7	14.8	
1030	9.85	100	14.1	1.942	7.1	0.26	4.22	-1.3	14.8	
1035	9.85	100	14.1	1.949	7.09	0.27	4.13	-8.3	14.8	
1040	9.83	100	14.1	1.955	7.09	0.25	5.26	-11.1	14.8	

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

14	**1.96**	**7.1**	**0.3**	**5.3**	**-11**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [x] WL METER Dipper-T
- [x] PID Minirae 3000
- [x] WQ METER YSI
- [ ] 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
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED: 0.91

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

SKETCH/NOTES

Sampler Signature:

Print Name: Kirstin Bratge

Checked By:

Date: 11/12/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-017
SAMPLE TIME	11:50

LOCATION ID	MW-017
DATE	11/12/2024
START TIME	10:55
END TIME	12:00
SITE NAME/NUMBER	808030
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	x		
CASING	x		
LOCKED			x
COLLAR	x		

INITIAL DTW (BMP)	13.37 FT	**FINAL DTW (BMP)**	13.41 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.18 FT	**SCREEN LENGTH**	5 FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.81 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.01 GAL	**PID WELL MOUTH**	3.6 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.66 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.04 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
1100	**BEGIN PURGING**									
1105	13.43	100	14.4	2.298	6.94	0.97	6.8	63.2	26.5	
1110	13.43	100	14.7	2.432	6.93	0.39	3.2	32.6	26.5	
1115	13.41	100	14.4	2.49	6.92	0.25	2.02	1.4	26.5	
1120	13.42	100	14.5	2.493	6.92	0.24	2.31	-2.9	26.5	
1125	13.42	100	14.5	2.490	6.93	0.19	2.11	-11.9	26.5	
1130	13.42	100	14.4	2.48	6.93	0.15	3.11	-210.4	26.5	
1135	13.43	100	14.5	2.483	6.93	0.15	2.25	-23.8	26.5	
1140	13.41	100	14.2	2.478	6.93	0.14	2.41	-28.7	26.5	

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

14	**2.48**	**6.9**	**0.1**	**2.4**	**-29**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [x] WL METER Dipper T
- [x] PID MiniRae 3000
- [x] WQ METER YSI
- [ ] 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
X	See Chain of Custody							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [x] NO [ ]

NO-PURGE METHOD UTILIZED: YES [ ] NO [x]

NUMBER OF GALLONS GENERATED: 1.04

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

SKETCH/NOTES

Missing one bolt

Sampler Signature:

Print Name Kirstin Bratge

Checked By:

Date: 11/12/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Former Diamond Cleaners
PROJECT NUMBER	386554 Phase 11
SAMPLE ID	FDC-MW-023
SAMPLE TIME	12:20

LOCATION ID	MW-023
DATE	11/12/2024
START TIME	11:44
END TIME	12:30
SITE NAME/NUMBER	808030
PAGE	1 OF 1

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

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

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

WELL INTEGRITY

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

INITIAL DTW (BMP)	11.94 FT	**FINAL DTW (BMP)**	15.83 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.5 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	0.6 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	17.56 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.64 GAL	**PID WELL MOUTH**	6.1 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.88 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	0.78 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
1148	13.6	100	12.1	1.321	7.21	2.89	5.84	19.3	26.5	
1153	13.89	100	12.7	1.326	7.24	0.209	5.16	-50	26.5	
1158	14.5	100	12.8	1.324	7.23	1.77	1.38	-114.2	26.5	
1203	14.59	100	12.5	1.322	7.23	1.76	1.8	-125.6	26.5	
1208	15.27	100	12.7	1.317	7.22	1.7	0.04	-133.4	26.5	
1213	15.58	100	12.9	1.315	7.23	1.65	0	-139.1	26.5	
1218	15.83	100	12.9	1.313	7.23	1.64	0	-141.8	26.5	

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

13	**1.31**	**7.2**	**1.6**	**0.0**	**-140**	

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

EQUIPMENT DOCUMENTATION

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

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

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

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

EQUIPMENT USED
- [x] WL METER Dipper T
- [x] PID MiniRae 3000
- [x] WQ METER YSI
- [ ] 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
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.00

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

SKETCH/NOTES

Sampler Signature:

Print Name: Liam Merrow

Checked By:

Date: 11/12/2024

TRC